



Workshop Manual SpaceFox, Space Cross, Suran, Suran Cross, Sportvan 2006 ➤

Body - external mountings

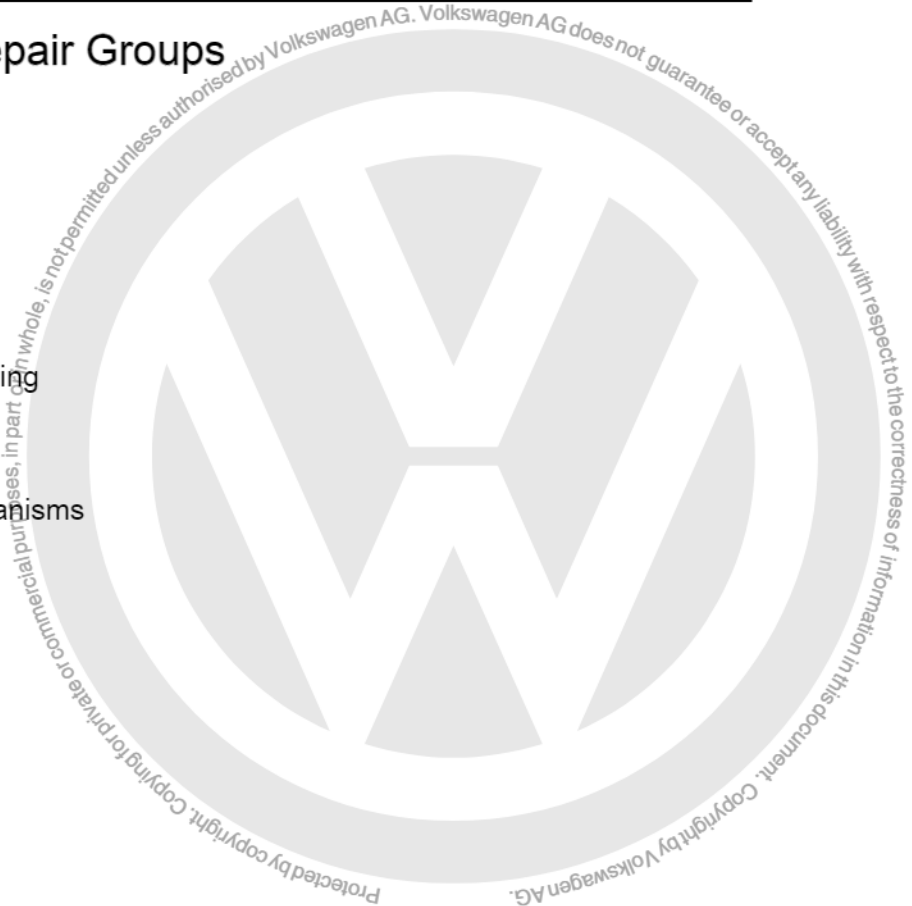
Edition 05.2011



List of Workshop Manual Repair Groups

Repair Group

- 50 - Body - Front part
- 55 - Covers
- 57 - Front doors/components/central locking
- 58 - Rear doors/Door components
- 63 - Bumpers
- 64 - Windshield, windows, window mechanisms
- 66 - External equipment



Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.



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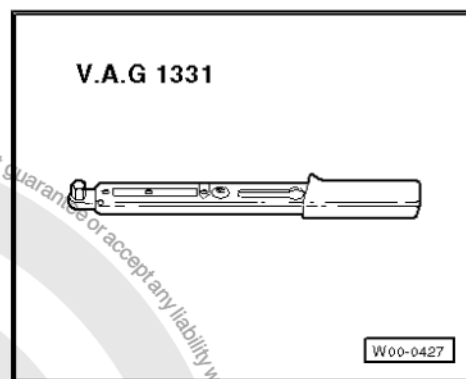
50 – Body - Front part

1 Body - front section

1.1 Front panel with attachments - (up to model-year 2010) - Remove and install

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-



Note

- ◆ Do not bend air conditioning condenser hoses.
- ◆ Do not hang the condenser up on its hoses.



1 - Screw

- ☐ 2 parts
- ☐ 8 Nm

2 - Front panel with attachments

- ☐ Information for removal:
 - Remove the hood latch
⇒ [page 25](#) .
 - Remove the front bumper and the front bumper support ⇒ [page 134](#) .
 - Remove the radiator ⇒ Engine; Rep. Gr. 19 ; Cooling system and the condenser ⇒ Aeration system; Rep. Gr. 87 ; Air conditioning .



Note

When installing, centralize the front panel on the longitudinal member and between the headlight housings.

3 - Screw

- ☐ 2 parts
- ☐ 8 Nm

4 - Bumper support

5 - Screw

- ☐ 6 parts
- ☐ 35 Nm

6 - Screw

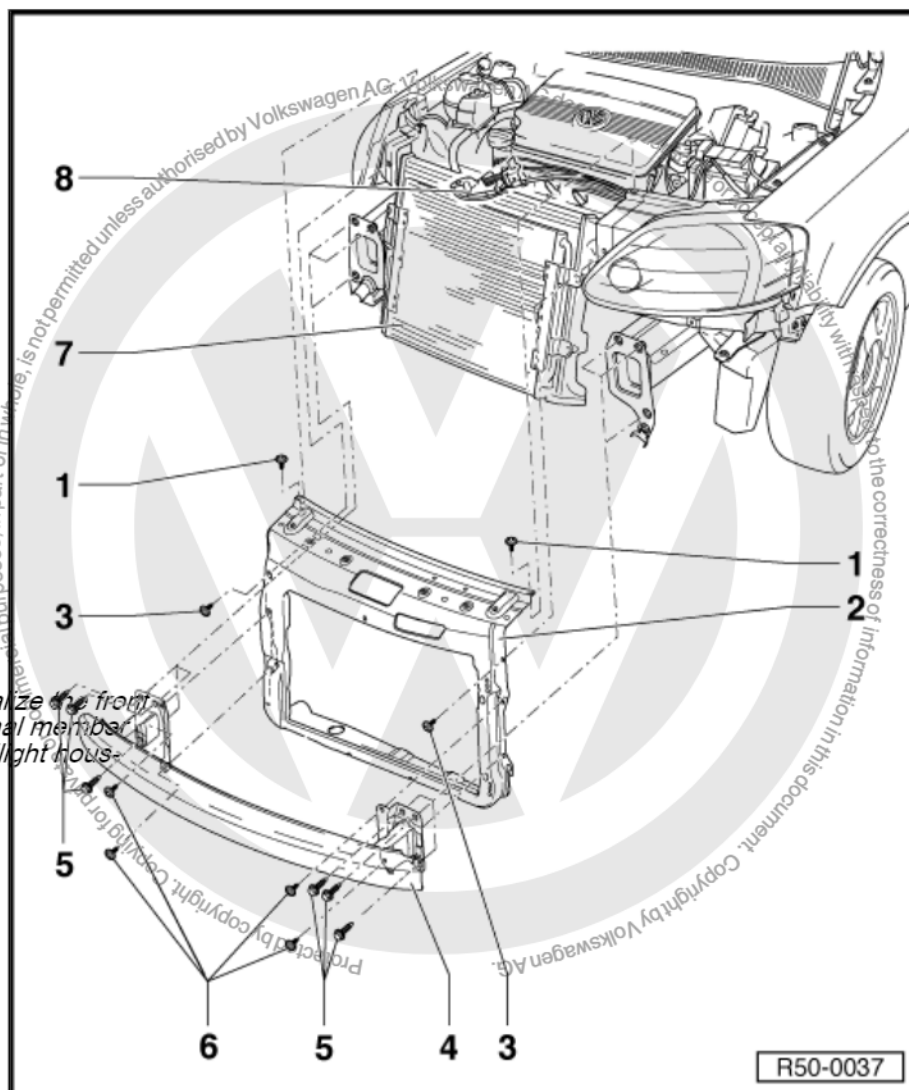
- ☐ 4 parts
- ☐ 8 Nm

7 - Radiator and condenser

- ☐ Remove the front panel ⇒ Aeration system; Rep. Gr. 87 ; Air conditioning

8 - Lid latch

- ☐ Remove ⇒ [page 25](#)

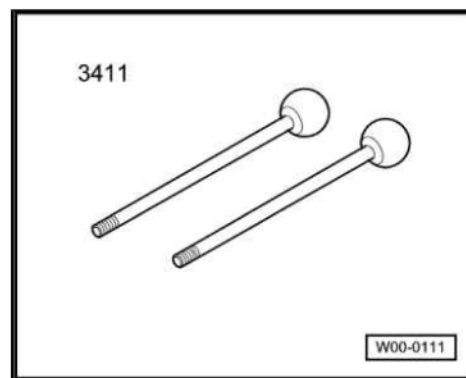


1.2 Front panel (until model-year 2010) - service position

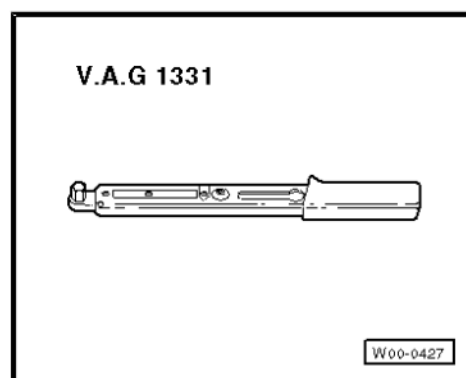
Special tools and workshop equipment required

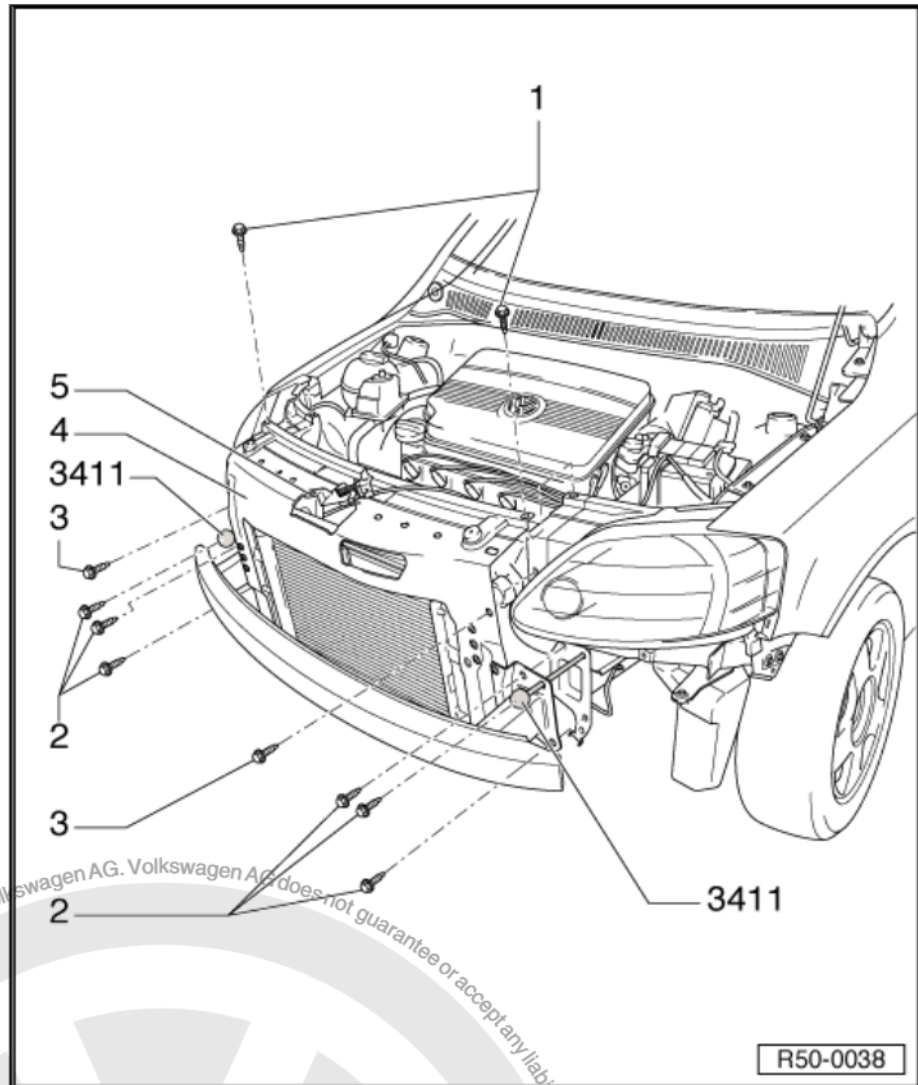


◆ Guide pins -3411-



◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-





- Remove the hood latch -5- ➔ [page 25](#) .
- Remove front bumper ➔ [page 134](#) .
- Loosen a screw -2- on each side and in the holes, screw the guide pins -3411- to the right and left members.
- Loosen the screws -1- and -3-.
- Loosen the other screws -2- from the members and pull the front panel -4- forward in the area of guide pins -3411- .

1.3 Front panel with attachments (up from model-year 2011) - Remove and install

Special tools and workshop equipment required



- ◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-

V.A.G 1331



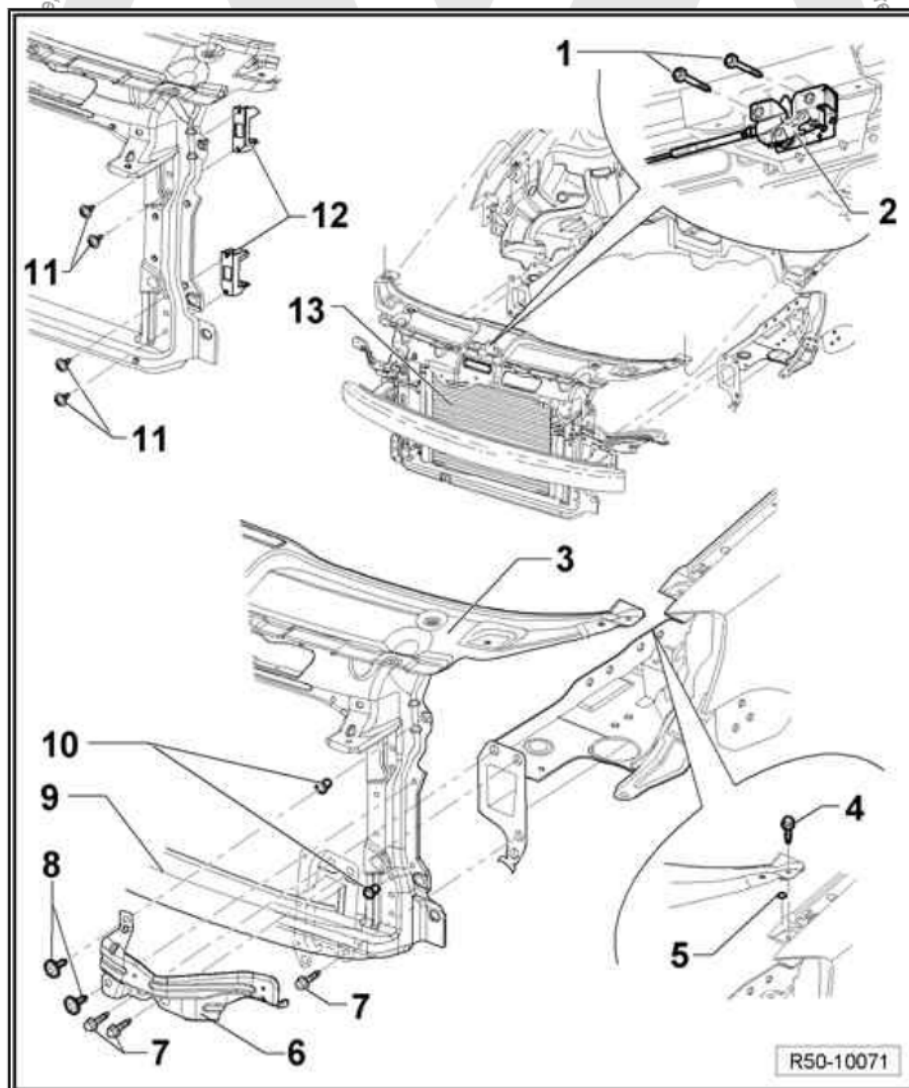
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Note

- ◆ Do not bend air conditioning condenser hoses.
- ◆ Do not hang the condenser up on its hoses.

- 1 - Screw
 - ☐ 2 parts
 - ☐ 12 Nm
- 2 - Front hood latch
 - ☐ Remove and install
⇒ [page 31](#)
- 3 - Front panel with attachments
- 4 - Screw
 - ☐ 2 parts
 - ☐ 8.5 Nm
- 5 - Protective adhesive tape
 - ☐ Self-adhesive
 - ☐ Always replace it after removal
- 6 - Front headlight support
- 7 - Screw
 - ☐ 6 parts
 - ☐ 30 Nm
- 8 - Screw
 - ☐ 4 parts
 - ☐ 8.5 Nm
- 9 - front bumper
 - ☐ Remove ⇒ [page 6](#)
 - ☐ Install ⇒ [page 7](#)
- 10 - Riveted nut
 - ☐ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-



R50-10071



11 - Radiator pad support attaching bolt

12 - Radiator pad support

13 - Radiator and condenser

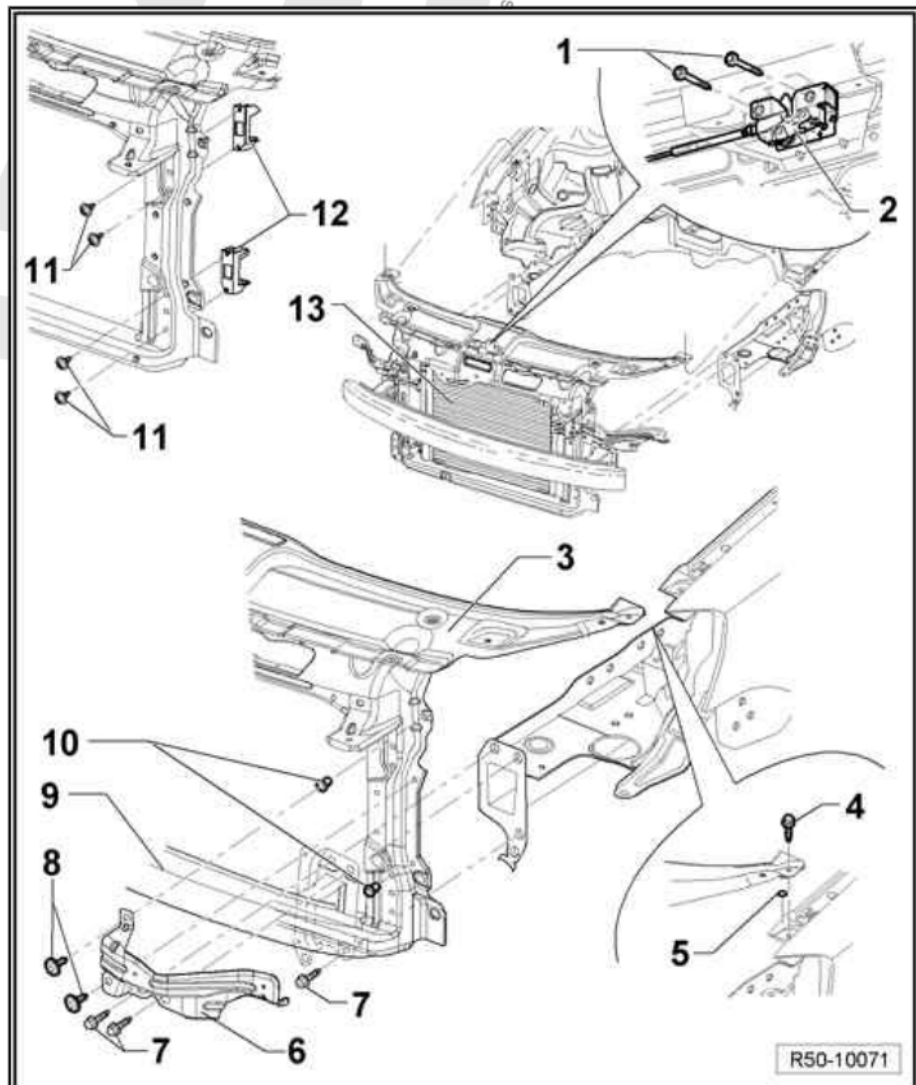
- ❑ Remove the front panel ⇒ Aeration system; Rep. Gr. 87 ; Air conditioning

1.3.1 Removal



Note

- ♦ *The front panel is an important safety component and in such case it should not be repaired / recovered.*
- ♦ *In case of damage, the front panel should be replaced.*



- Remove the hood latch ⇒ [page 31](#) .
- Remove front liner ⇒ [page 136](#) .
- Remove the headlights ⇒ Electrical system; Rep. Gr. 94 ;
Switches, lights and external lamps .



- Remove screws -7- that attach the front bumper -9- and remove them.
- Remove screws -4-.
- Disengage the climate control system radiator and condenser assembly from the radiator pad supports -11-.
- Remove the front panel.

1.3.2 Installation

- Installation is performed in the reverse sequence of the removal.



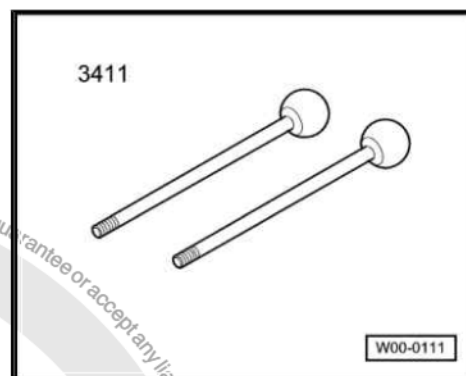
Note

When installing, centralize the front panel in the members and between the upper portions of the wheelhouses.

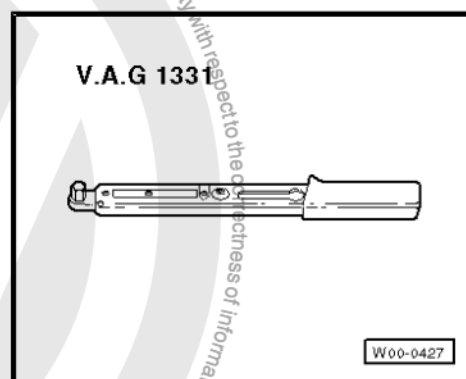
1.4 Front panel (up from model-year 2011) - service position

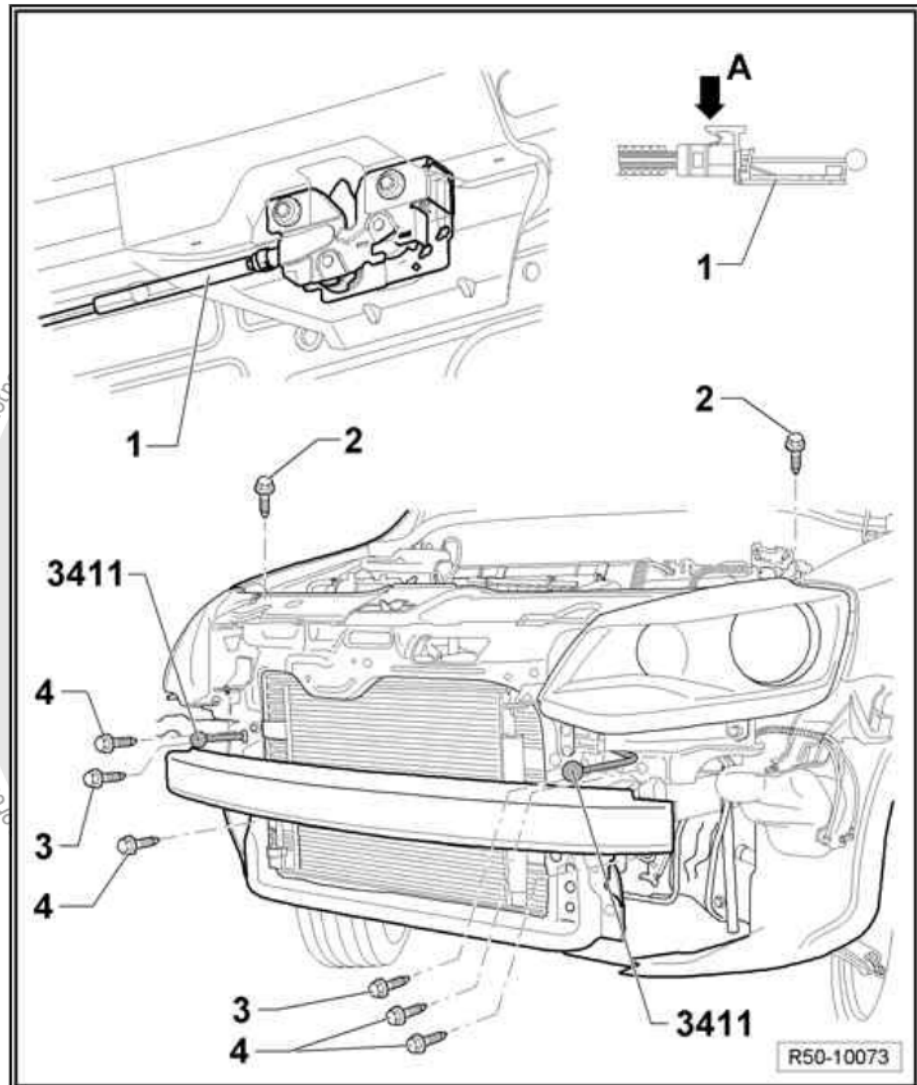
Special tools and workshop equipment required

- ◆ Guide pins -3411-



Torque wrench -5 to 50Nm (socket 1/2") -VAG 1331-





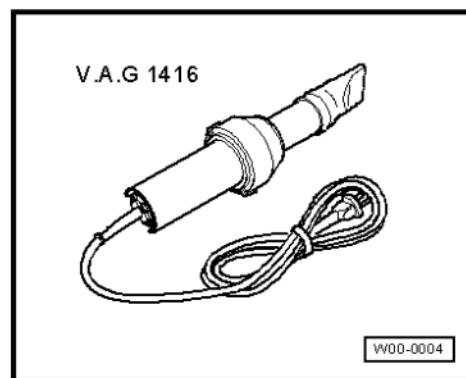
- Remove front liner ⇒ [page 141](#) .
- Disconnect Bowden cable on lock. -1- pressing the lock towards the -arrow A- and disengaging it from the latch.
- Remove screws -3- and in the holes of the screws, screw the guide pins -3411- to the right and left members.
- Remove screws -4- and -2-.
- Displace the front panel forward by sliding it under the guide pins -3411- .

1.5 Front fender (up to the model-year 2010) - Assembly overview

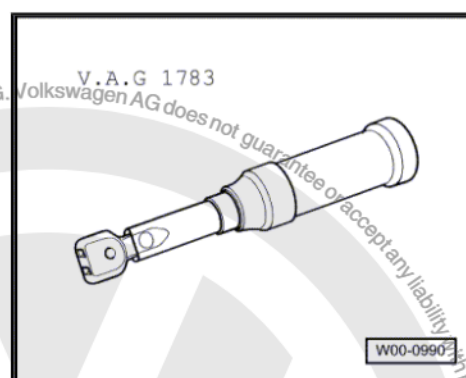
Special tools and workshop equipment required



- ◆ Blow pipe -VAG 1416-



- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



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1 - Fender

Information for removal:

- Remove front bumper
⇒ [page 134](#) .
- Remove the wheel-house protection
⇒ [page 178](#) .
- If necessary, heat and remove the fender at the A-pillar area with the Blow pipe -VAG 1416- .



Note

*When installing, before securing the fender, a coat of zinc based electro-conductive paint should be applied
⇒ [Painting Manual](#) or -AKL 381 035 50- at the mating surface of each fender attaching point.*

2 - Screw

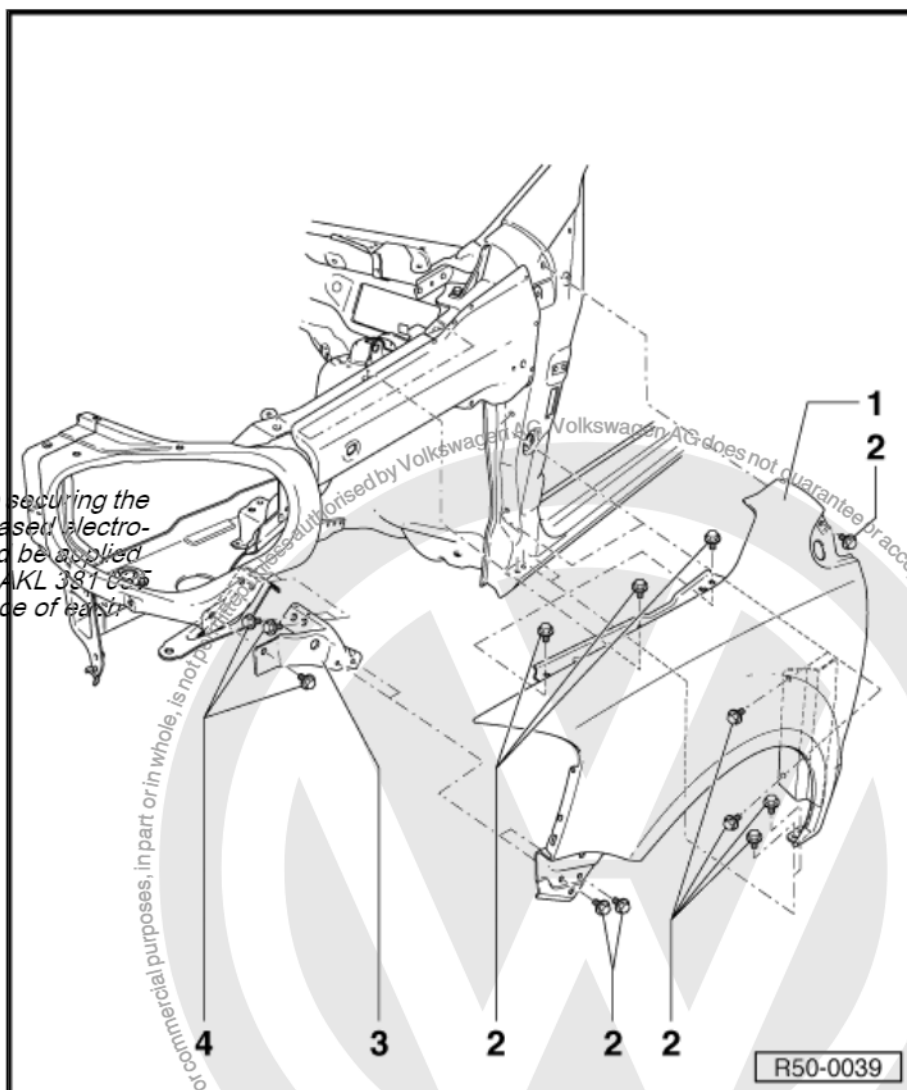
- 10 parts
- 6 Nm

3 - Support

- Fixed with screws to the wheelhouse

4 - Screw

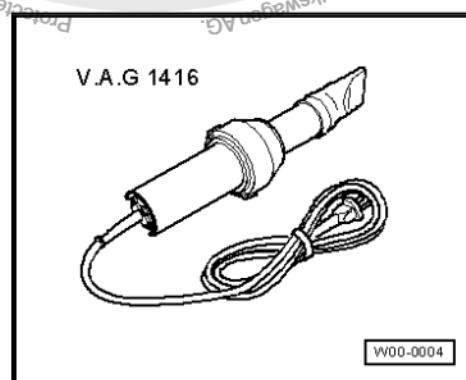
- 3 parts
- 6 Nm



1.6 Front fender (up from model-year 2011) - Assembly overview

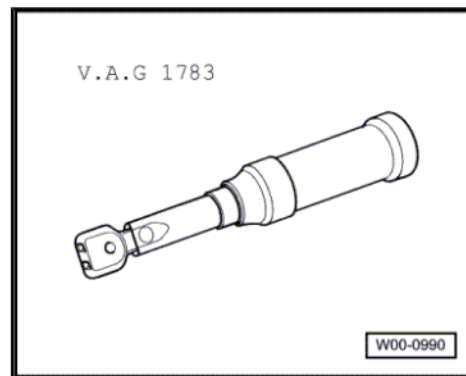
Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-





- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



1 - Screw

- ☐ 1 part
- ☐ 1.5 Nm

2 - Riveted nut

- ☐ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-
- ☐ 5 parts

3 - Fender

- ☐ Information for removal:
 - Remove front liner
⇒ [page 141](#) .
 - Remove the wheel-house protection
⇒ [page 178](#) .
 - If necessary, heat and remove the fender at the A-pillar area with the Blow pipe -VAG 1416- .



Note

When installing, before securing the fender, a coat of zinc based electro-conductive paint should be applied
⇒ *Painting Manual* or -AKL 384 035 50- at the mating surface of each fender attaching point.

4 - Screw

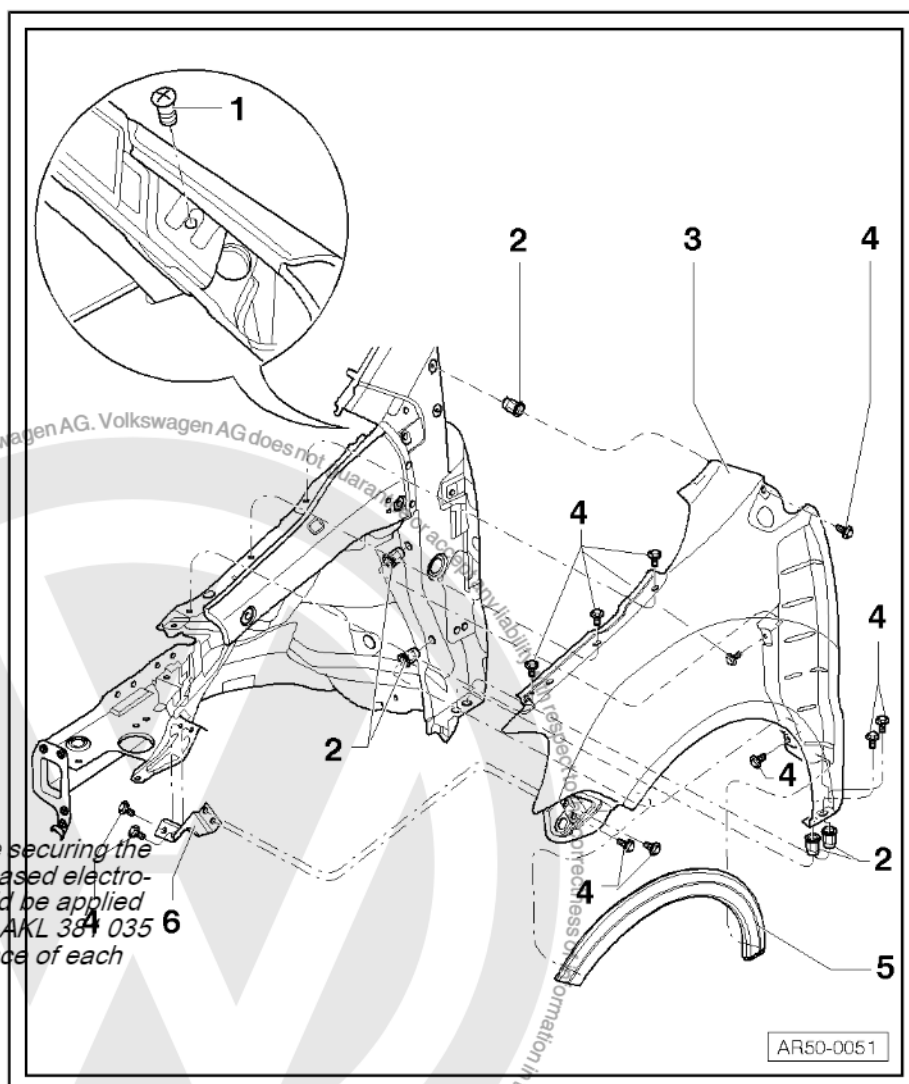
- ☐ 12 parts
- ☐ 1.5 Nm

5 - Wheel housing liner

- ☐ Only for Space Cross and Suran Cross vehicles

6 - Support

- ☐ Fixed with screws to the wheelhouse

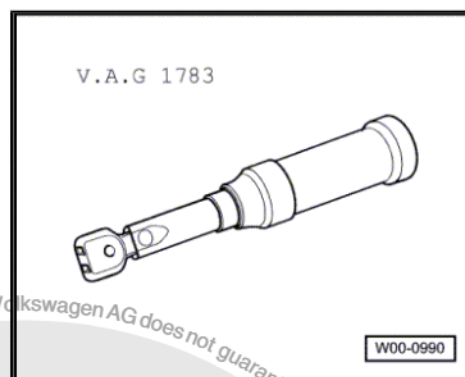




1.7 Noise insulation (gasoline engine) - Assembly overview

Special tools and workshop equipment required

- ◆ Torque wrench 2 to 10 Nm -VAG 1783-

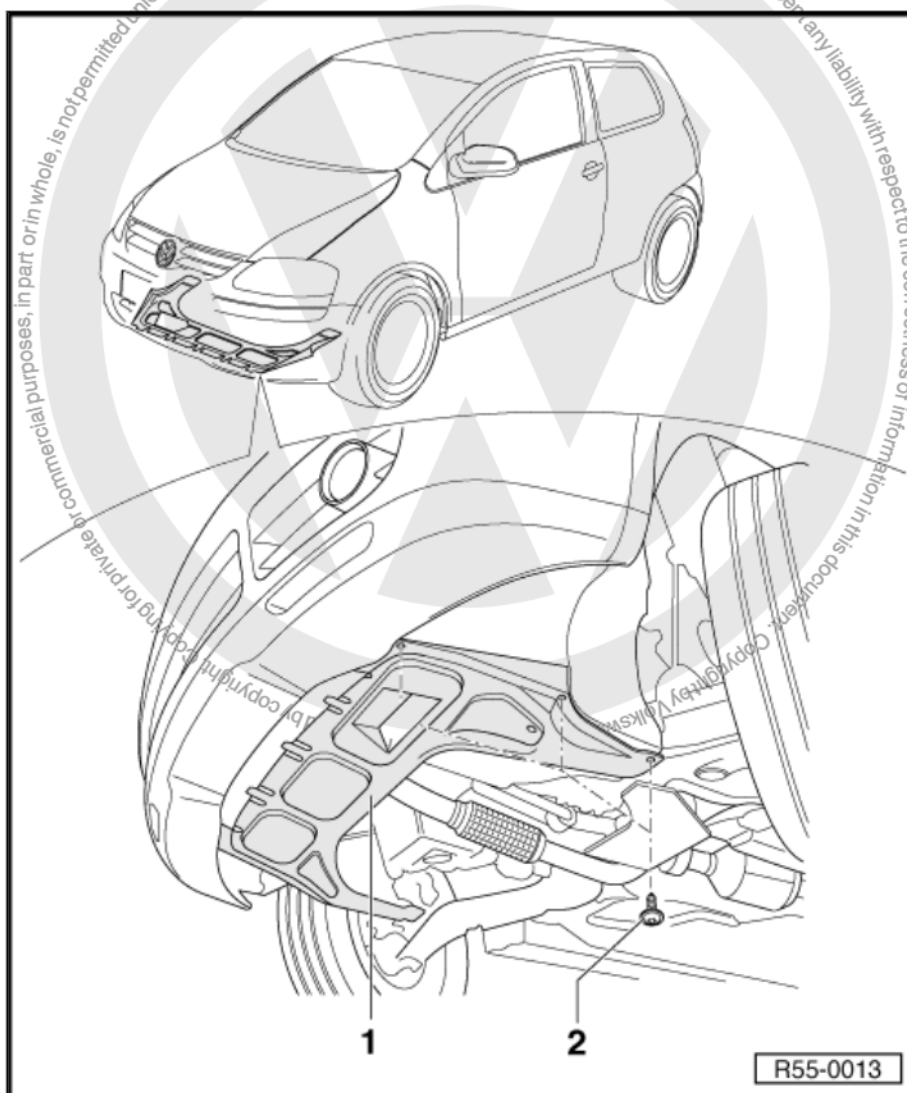


1 - Noise insulation

- ☐ Fixed and inserted on the front part of the front panel

2 - Screw

- ☐ 6 parts
- ☐ 6 Nm

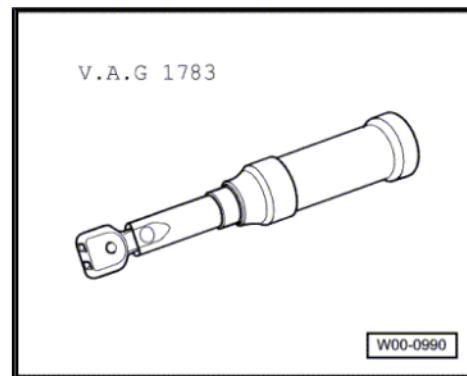


1.8 Noise insulation (diesel engine) - Assembly overview

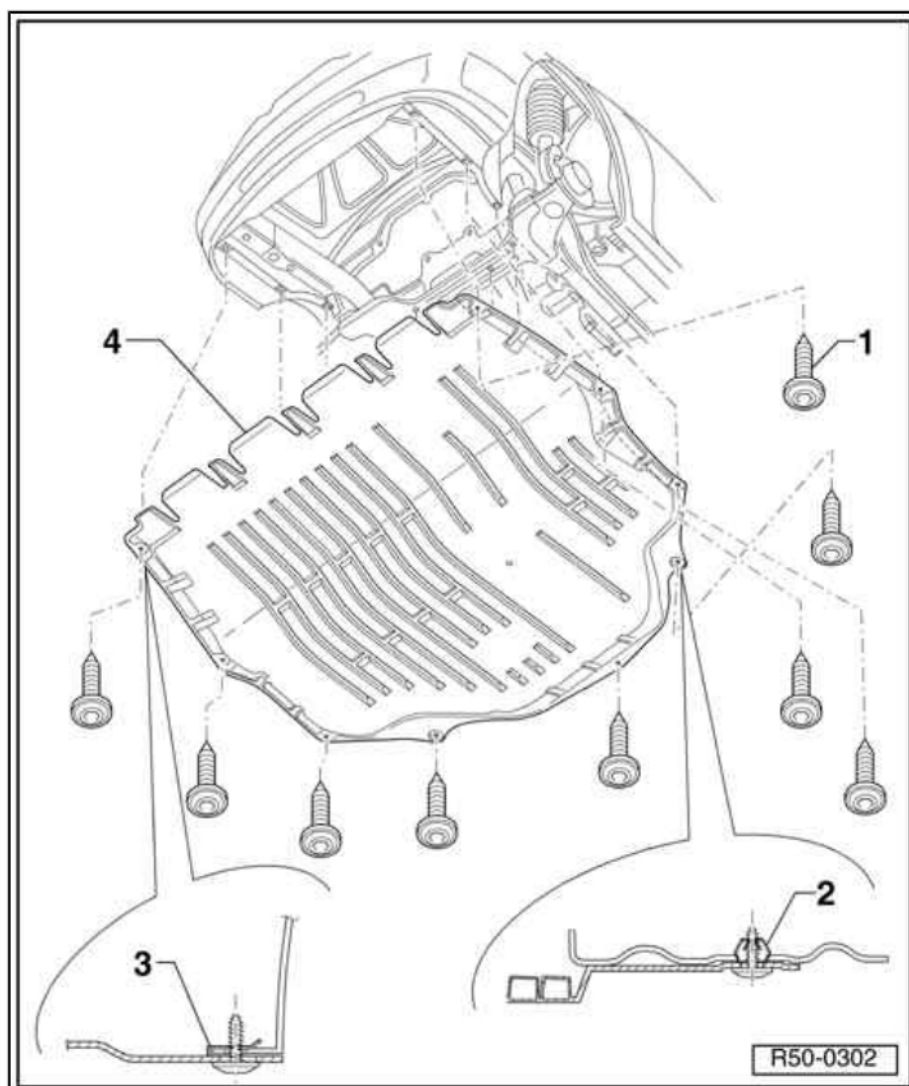
Special tools and workshop equipment required



- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



- 1 - Screw
 - ☐ 9 parts
 - ☐ 2.5 Nm
- 2 - Bushing
- 3 - Quick nut
- 4 - Noise insulation
 - ☐ For diesel engines
 - ☐ Attached and engaged to the front panel front area



liability with respect to the correctness of information in this

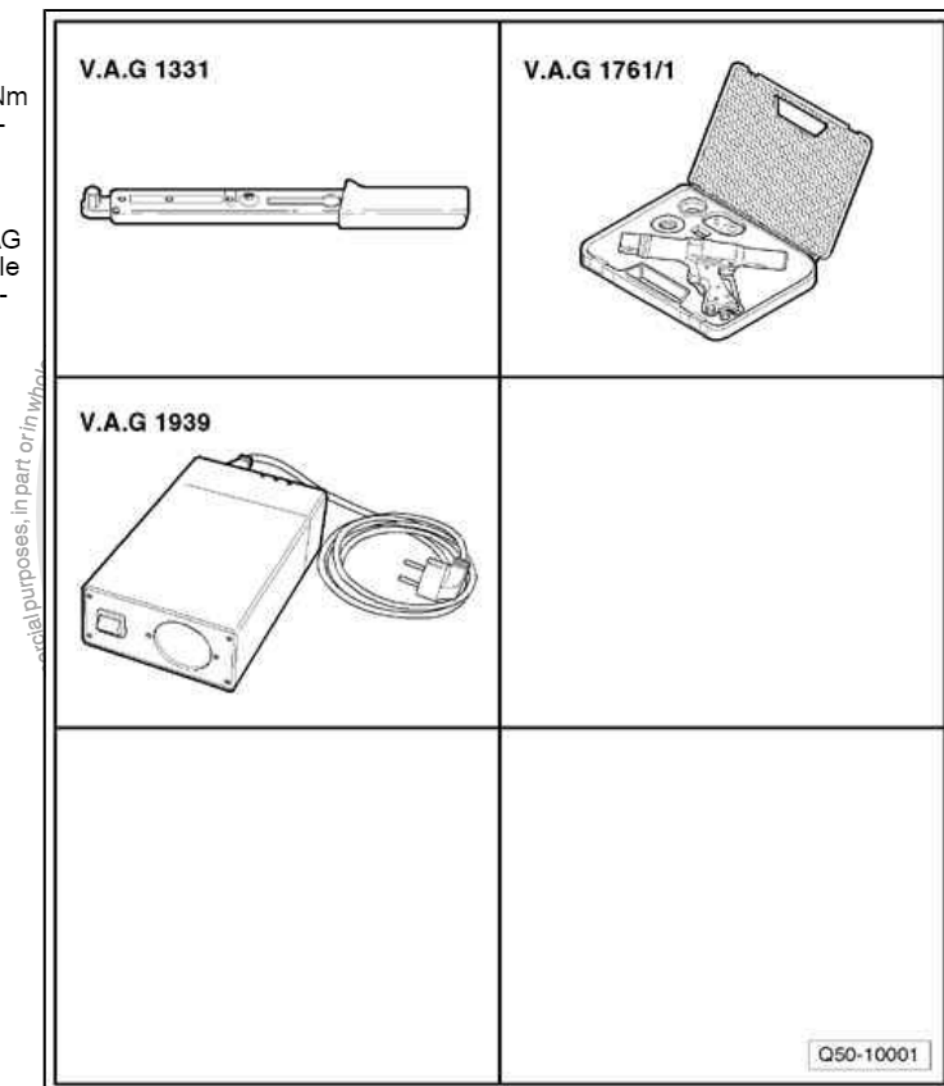


2 Engine compartment partition panel

2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-
- ◆ Cartridge heater -VAG 1939A-
- ◆ Compressed air gun -VAG 1761/1- or Adhesive bottle tip cap for bonded glass - VAG 1628-



2.2 Auxiliary materials for the Brazilian market

- ◆ Windows adhesive Kit ⇒ Chemical Materials Manual; Rep. Gr. 00 ; Chemicals

1) Ensure minimum curing time is respected ⇒ [page 16](#) .

2.3 Auxiliary materials for the Brazilian market

- ◆ Adhesive for glass panels 1K -DH 009 100 03- ³⁾
- ◆ Activator -D 181 801 A1- ²⁾
- ◆ Painting/glass primer -D 009 200 02- ²⁾



- ◆ Cleaning solution -D 009 401 04- ²⁾
- ◆ Primer dispenser -D 009 500 25- ²⁾

2) The materials are present in the package -D 004 700- .

3) Heat according to manufacturer indications Cartridge heater -VAG 1939A-

4) Take into account the minimum time for the cure ➔ [page 16](#)

2.4 Correspondence table



Note

To help the comprehension, there is a comparative table of materials that are used in Brazilian market and for exportation below

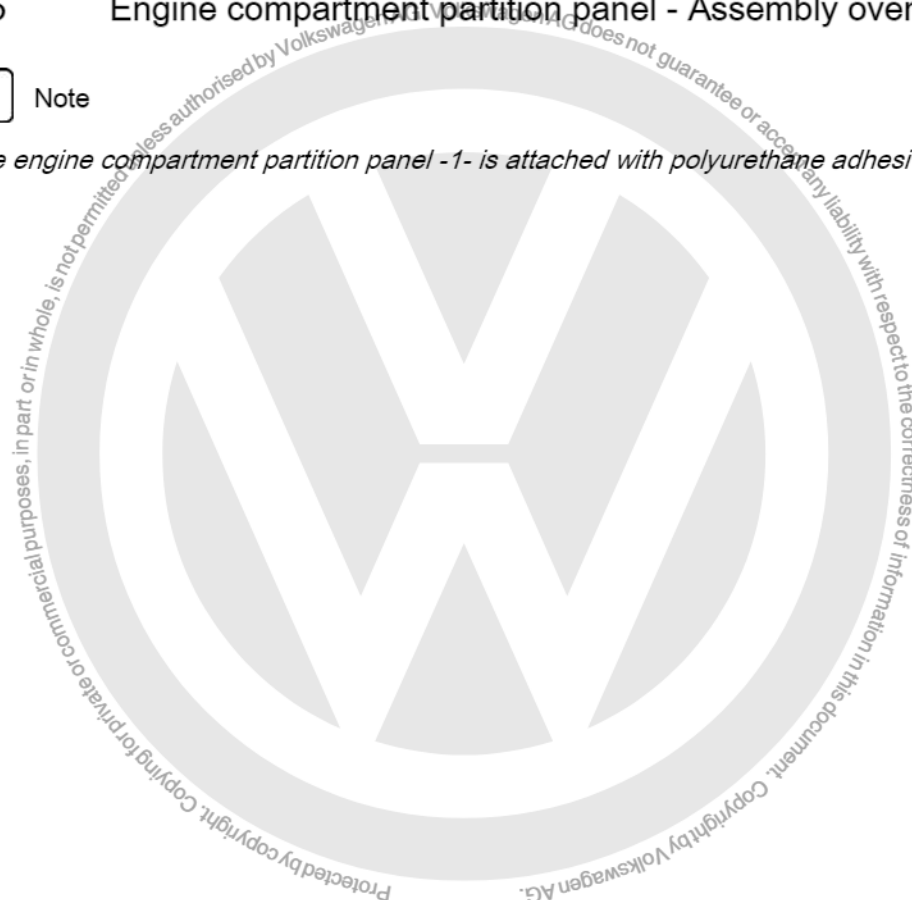
Product	Brazilian Market	Exportation Market
PU Adhesive	U-400 HV or PU-501 Extra Quick Drying	-DH 009 100 03-
Primer for body	Primer 5404 A or PU-530	-D 009 200 02-

2.5 Engine compartment partition panel - Assembly overview



Note

The engine compartment partition panel -1- is attached with polyurethane adhesive (PUR) -3-.





1 - Engine compartment partition panel

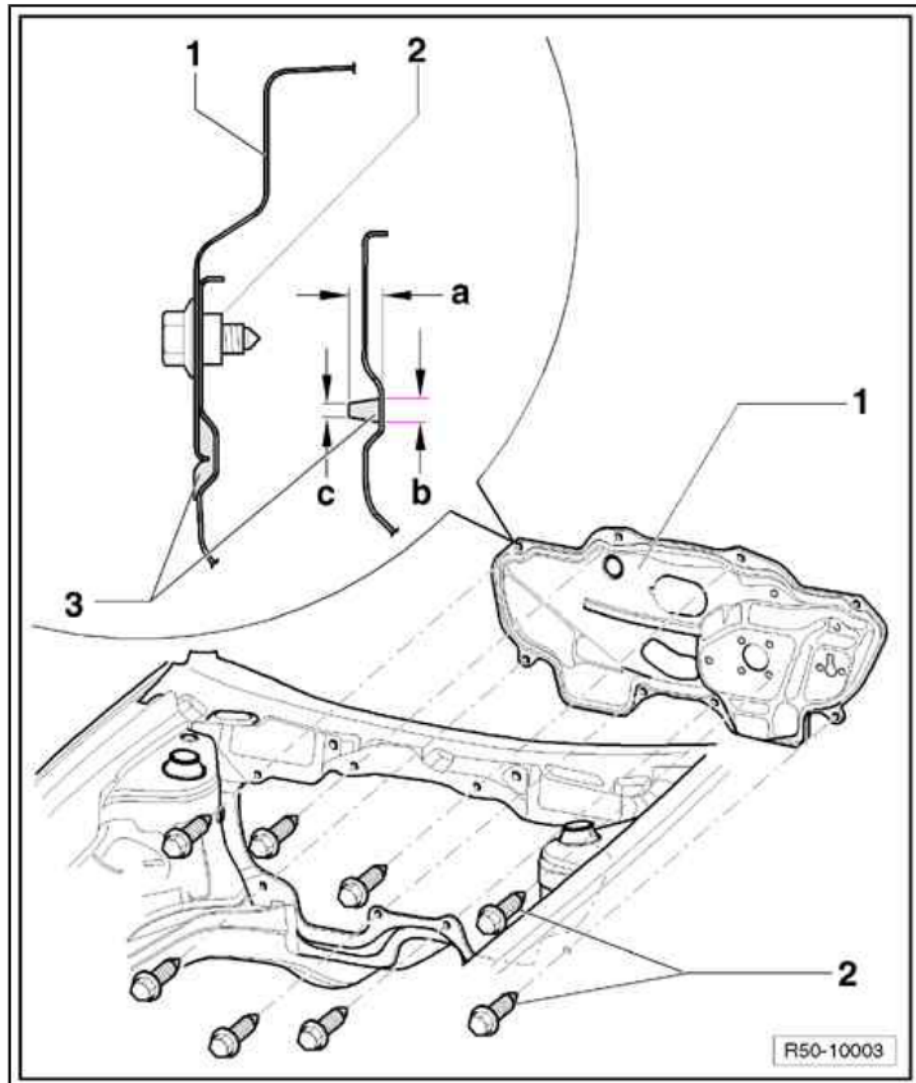
- ☐ Remove:
- After removing the screws -2-, cut the adhesive bead.

2 - Screw

- ☐ 8 parts
- ☐ 25 Nm

3 - PUR Adhesive

- ☐ Auxiliary materials for the Brazilian market
⇒ [page 14](#)
- ☐ Auxiliary materials for the Brazilian market
⇒ [page 14](#)
- ☐ Section of bead: -nd- = 11 mm, -b- = 8.5 mm and -c- = 7 mm
- ☐ Curing minimum time
⇒ [page 16](#)



2.6 Minimum curing time of adhesive

The minimum curing time is the time from panel gluing vehicle usage. During this period of time shall the vehicle remain on a flat surface and at room temperature (at least 15 °C).



Note

The vehicle can be delivered to the customer at least 3 hours after the repair.



3 Engine compartment partition panel

3.1 Engine compartment upper partition panel - Assembly overview



Note

The upper engine compartment partition panel -1- is attached with polyurethane adhesive (PUR) -3-.

1 - Engine compartment partition panel

☐ Remove:

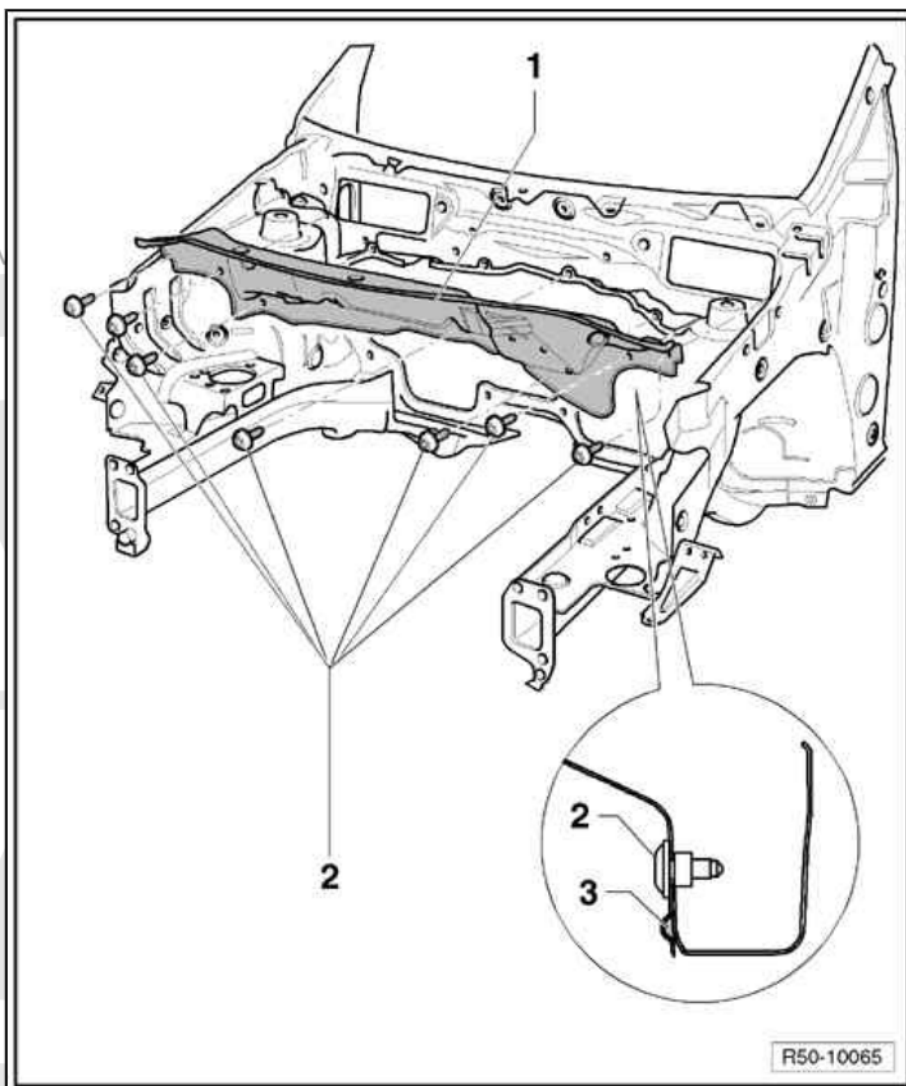
- After removing the screws -2-, cut the adhesive bead.

2 - Screw

- ☐ 8 parts
- ☐ 25 Nm

3 - PUR Adhesive

- ☐ Auxiliary materials for the Brazilian market
⇒ [page 14](#)
- ☐ Auxiliary materials for the Brazilian market
⇒ [page 14](#)
- ☐ Curing minimum time
⇒ [page 16](#)



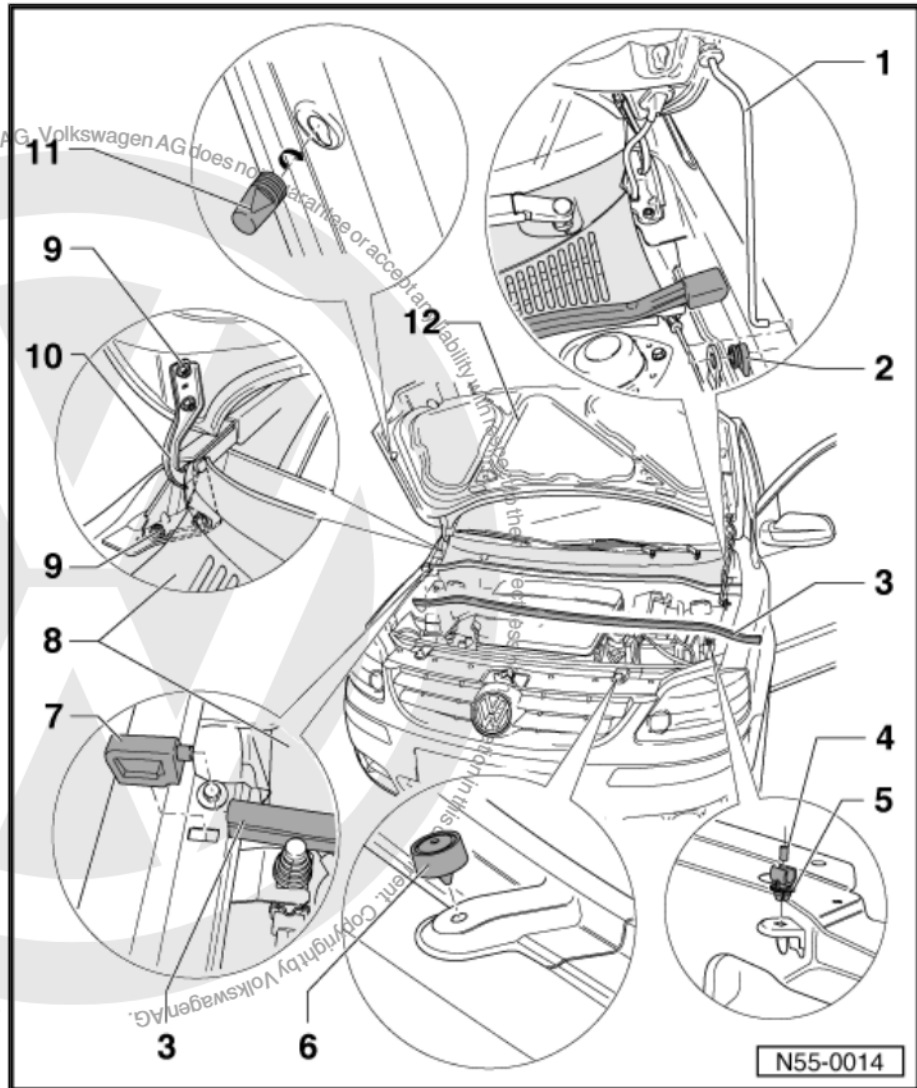


55 – Covers

1 Front hood

1.1 Front hood (up to the model-year 2010) - Assembly overview

- 1 - Hood holding rod
- 2 - Bushing
- 3 - Front bonnet fitting
 - ☐ Fitted over the flange
- 4 - Expansion pin
- 5 - Securing clip
 - ☐ For hood holding rod
- 6 - Stopper
- 7 - Filling
- 8 - Windshield lower trim
 - ☐ Remove and install
⇒ [page 205](#)
- 9 - Screw
 - ☐ 4 parts per hinge
 - ☐ 23 Nm
- 10 - Hinge
- 11 - Adjustment stopper
 - ☐ The cover height can be adjusted concerning the fenders by screwing and unscrewing it
- 12 - Front hood
 - ☐ Remove:
 - Remove windshield wiper and ejector pipes.
 - Loosen the screws -9- from the front hood and remove the hood.



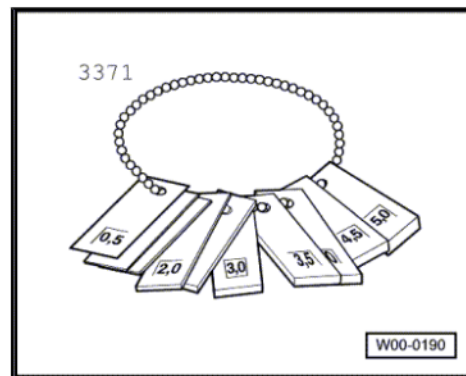
- Check the distance of the latch concerning the front bonnet locking hook: "nd" it should be ≥ 7 mm.
- ☐ Adjust ⇒ [page 18](#)

1.2 Front hood (up to model-year 2010) - Adjust

Special tools and workshop equipment required



◆ Adjustment gauge -3371-



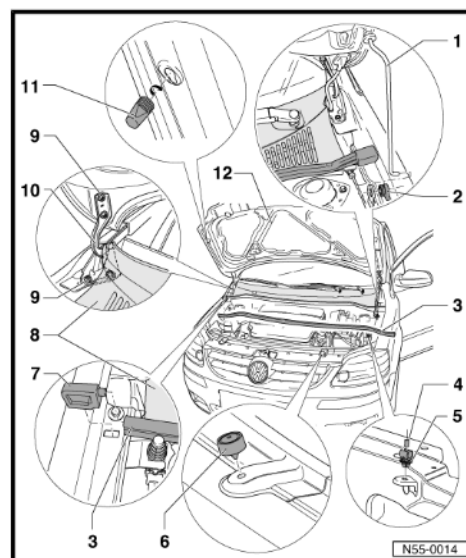
- Hood can be aligned between wings when hinges are moved in the oblong holes.
- Through adjustment stopper -11- the cover height should be adjusted with regard to the fenders.
- Shut lines/gaps ⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .



Note

Check measurement "nd" for alignment of the front hood latch concerning the locking hook ⇒ [page 24](#) .

- After assembly or adjusting jobs, follow procedures to protect hinges and screws against corrosion.



1.3 Latch operation cable (up to the model-year 2010) - Assembly overview





1 - Seal bushing

- ☐ From the water deflector panel to the inner compartment

2 - ?Operation cable

- ☐ Remove and install
⇒ [page 20](#)

3 - Seal bushing

- ☐ From the engine compartment to the water deflecting panel.

4 - Operation cable securing clip

- ☐ 2 parts

5 - Distancing bung

- ☐ 2 parts

6 - Screw

- ☐ 2 parts
- ☐ 1.5 Nm

7 - Operating lever

- ☐ With support

8 - Clamp

- ☐ To the operation cable

9 - Screw

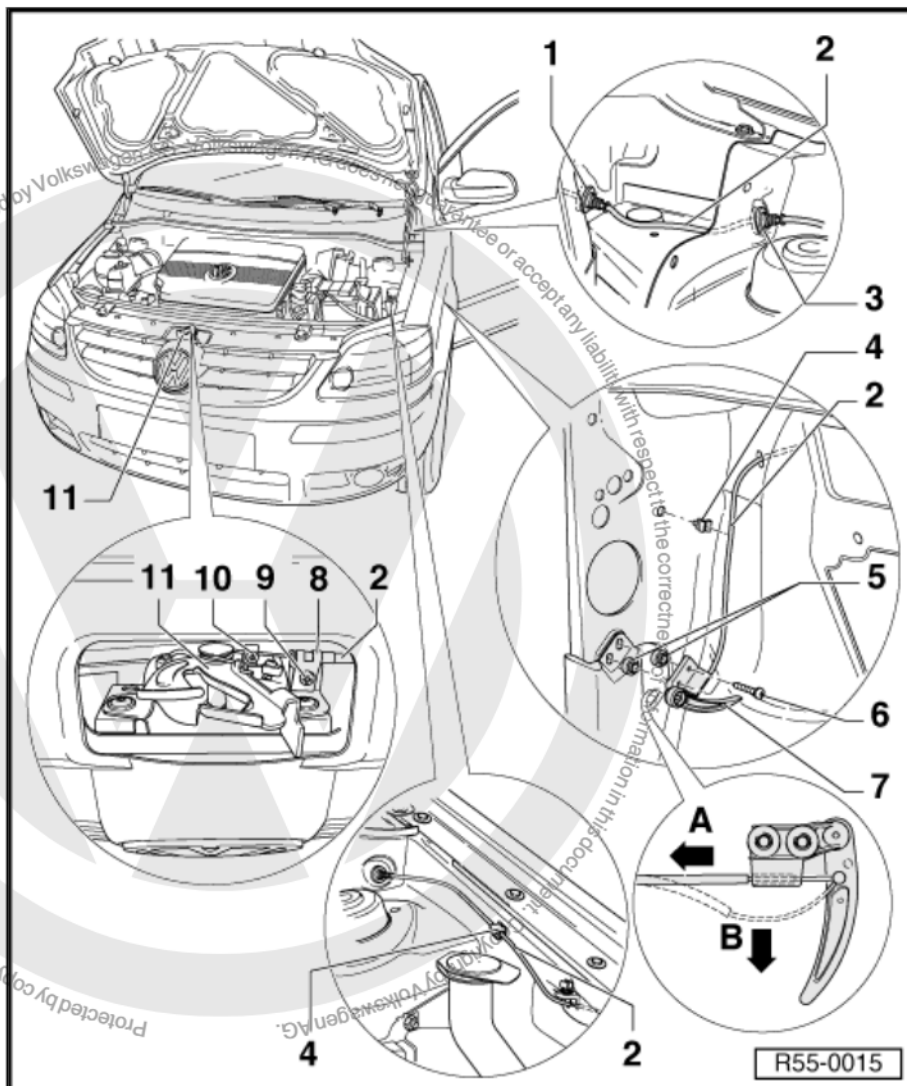
- ☐ 3 Nm

10 - Fixing screw

- ☐ To the cable
- ☐ 3 Nm

11 - Front hood latch

- ☐ Assembly overview ⇒ [page 24](#)
- ☐ Remove and install the front hood latch ⇒ [page 25](#)

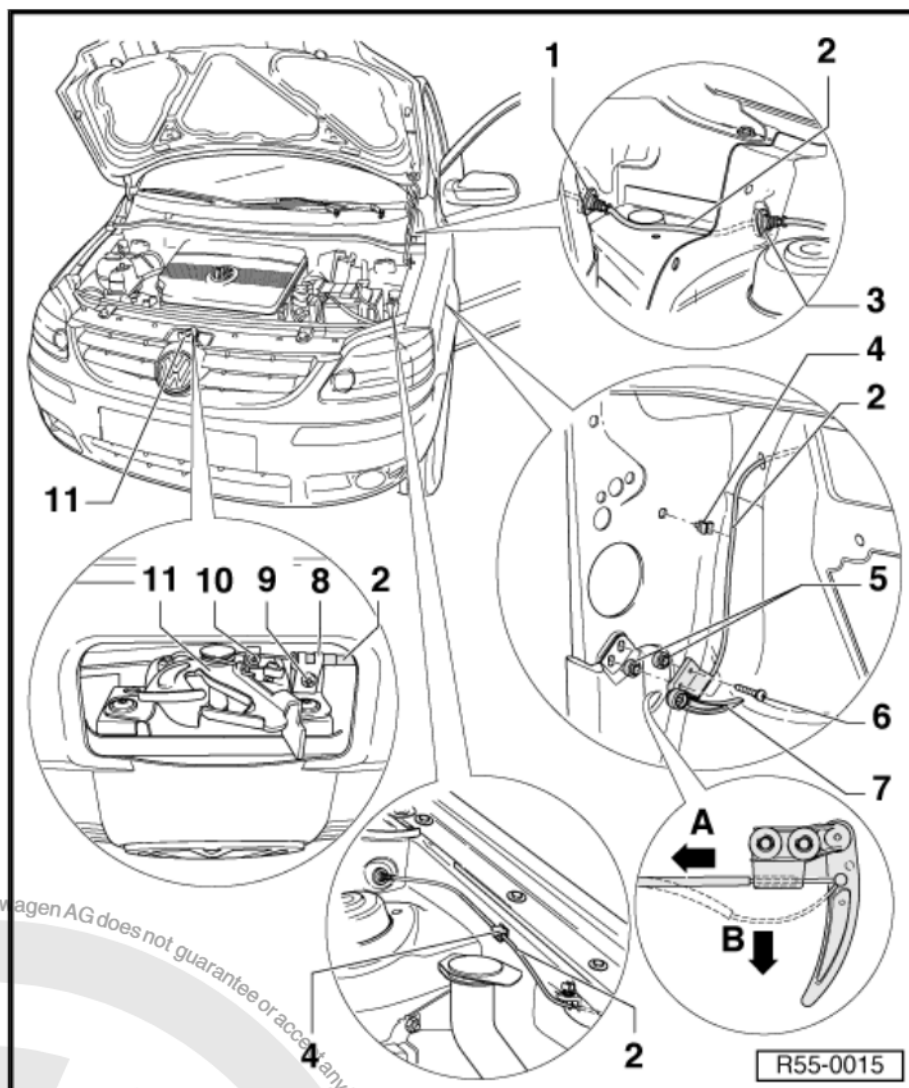


1.4 Latch operation cable (up to model-year 2010) - Remove and install



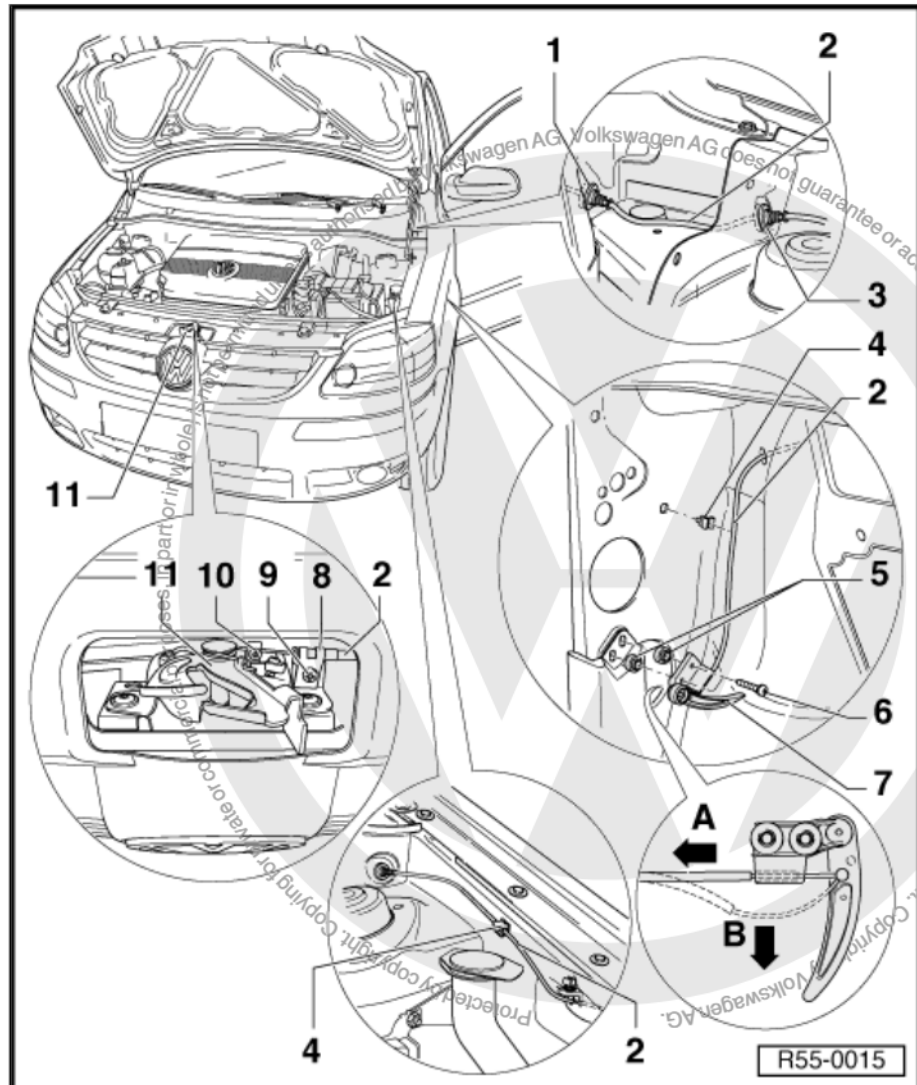
Note

While operating cable is not fully installed, the front hood cannot be closed anyway, otherwise the front hood latch will lock and the operating cable not being installed, it will not be possible to open the front hood again.



Removal

- Disengage the Control unit for onboard wiring harness -J519- and the corresponding support. Disengage the relay plate and put it aside, then remove the three bolts attaching the relay plate support.
- Remove the windshield lower trim ⇒ [page 205](#) .
- Release the fastening screw -10- from the front hood latch -11- and, if required, straighten the operation cable tip -2-.
- Release the fastening screw -9- of the clamp -8- and pull the operation cable out.
- Remove the attaching screws -6- from the actuating lever -7- and disengage the actuating lever from the side wall.
- Pull the actuating cable cover -2- from the actuating cable towards the seat at the support -arrow A- and remove the wire.
- Turn the actuating cable -arrow B- and remove it from the seat at the actuating lever.
- Loosening the sealing bushings -1- and -3- from the securing clips -4- on the partition wall and actuating cable side -2-.
- Pull the operation cable -2- in the direction of engine compartment.



Installation

Installation happens in reverse order, ensure the following:

- Install the sealing bushings -1- and -3- on the new operation cable.



Note

Ensure proper seating of sealing bushings so that there are no leaks.

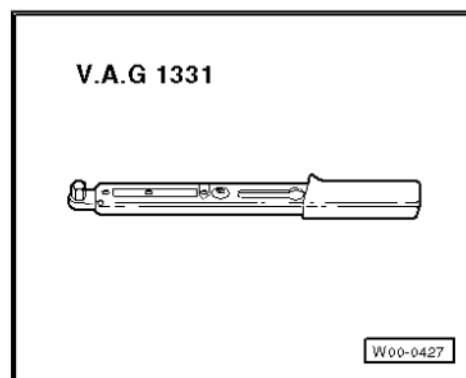
- Pass the operation cable through the latch -11-, in this case the operation cable bushing should be completely pushed against the clamp -8-. Tighten the fastening screw -9- with 3 Nm.
- In order to adjust the operation cable, the actuating lever -7- should be pressed completely forward and then the attaching screw -10- should be tightened against the latch -11- with 3 Nm.
- Check operation of latch and of opening mechanism. At last, fold the remaining cable end.



1.5 Front bonnet hinge - Remove and install

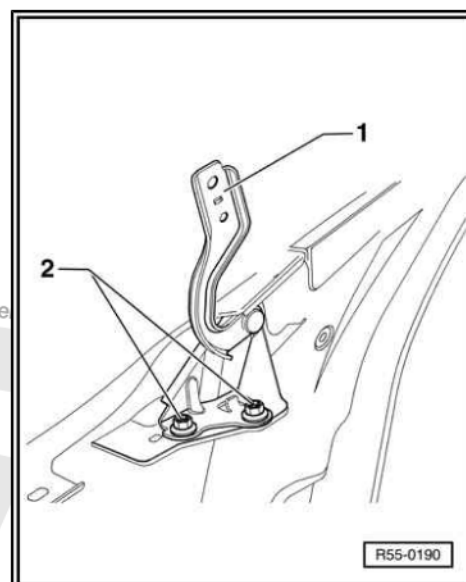
Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-



1.5.1 Removal

- Remove front bonnet ⇒ [page 18](#) .
- Remove screws -2- that attach de hinge -1-.

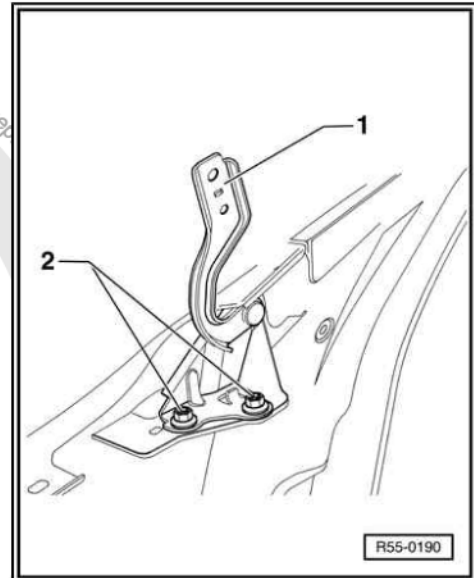


1.5.2 Installation

- Install the hinge -1-.



- Screws torque -2-: 24 Nm.
- Install front hood.



1.6 Front hood latch (up to the model-year 2010) - Assembly overview

1 - Locking hook

- ☐ Fastened with hood
- ☐ Check the distance of the locking hook concerning the front hood latch: "nd" it should be ≥ 7 mm

2 - Front hood latch

- ☐ Remove and install ➔ [page 25](#)
- ☐ Adjust: through oblong holes
- ☐ Check the distance of the latch concerning the front bonnet locking hook: "nd" it should be ≥ 7 mm
- ☐ Shut lines/gaps ➔ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .

3 - Screw

- ☐ 2 parts
- ☐ 8 Nm

4 - Clamp

- ☐ To the operation cable

5 - ?Operation cable

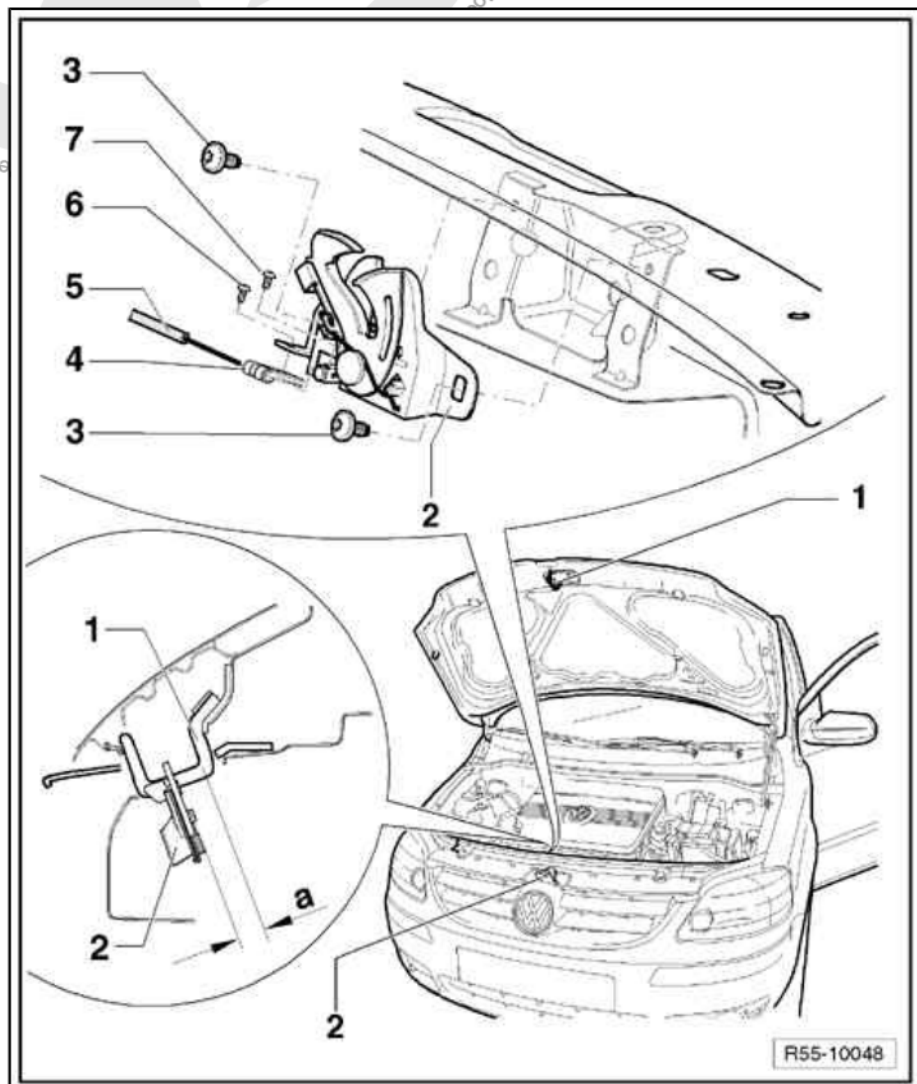
- ☐ Remove and install ➔ [page 20](#)

6 - Screw

- ☐ 3 Nm

7 - Fixing screw

- ☐ For the cable



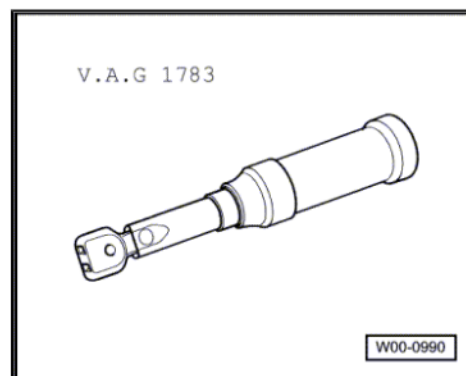


□ 3 Nm

1.7 Front hood latch (up to the model-year 2010) - Remove and install

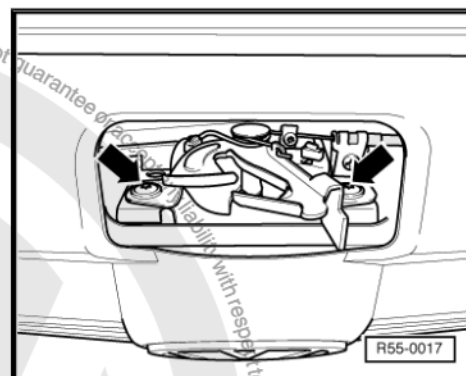
Special tools and workshop equipment required

- ◆ Torque wrench 2 to 10 Nm -VAG 1783-

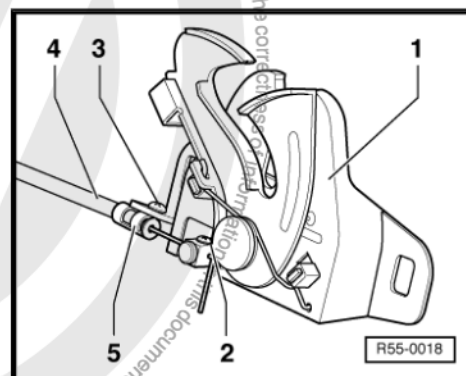


Removal

- Unscrew the screws -arrows- and loosen outwards the front panel, the hood latch in the direction of the engine compartment.



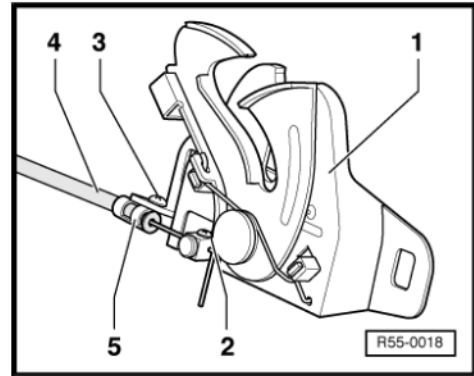
- Release the fastening screw -2- from the operation cable -4- and, if required, straighten the operation cable tip.
- Release the fastening screw -3- of the clamp -5- and remove the actuating cable -4- from the front hood latch -1-.





Installation

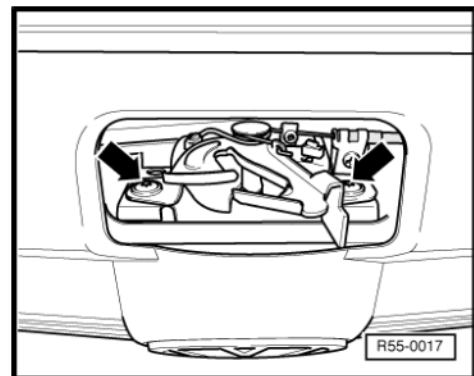
- Pass the operation cable through the latch -1-, in this case the operation cable bushing should be completely pushed -4- against the clamp -5-.
- Tighten the fastening screw -3- with 3 Nm.
- In order to adjust the operation cable, the actuating lever ⇒ [Item 7 \(page 20\)](#) should be pressed completely forward and then the attaching screw -2- should be tightened against the latch -1- with 3 Nm.
- Check operation of latch and of opening mechanism. At last, fold the remaining cable end.
- Install the bonnet latch on the front panel from the engine compartment side and manually tighten the screws -arrows-.



Note

Check measurement "nd" for alignment of the front hood latch concerning the locking hook ⇒ [page 24](#).

- Check the clearance measures and, if necessary, adjust the hood latch through the oblong holes ⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .
- Install the fastening screws -arrows- with a final tightening of 8 Nm.



1.8 Front hood (up from model-year 2011) - Assembly overview





1 - Front hood side fitting

2 - Hood holding rod

3 - Bushing

4 - Expansion pin

5 - Securing clip

- ☐ For hood holding rod

6 - Protective adhesive tape

- ☐ The self-adhesive surface of the tape should not be touched anyway.

- ☐ Clean the application area with the Adhesive remover -D 002 000 10- and, then, apply the Cleaning solution -D 009 401 04-

7 - Adjustment stopper

- ☐ The cover height can be adjusted concerning the fenders by screwing and unscrewing it

8 - Screw

- ☐ 2 parts per hinge
- ☐ 24 Nm

9 - Hinge

10 - Screw

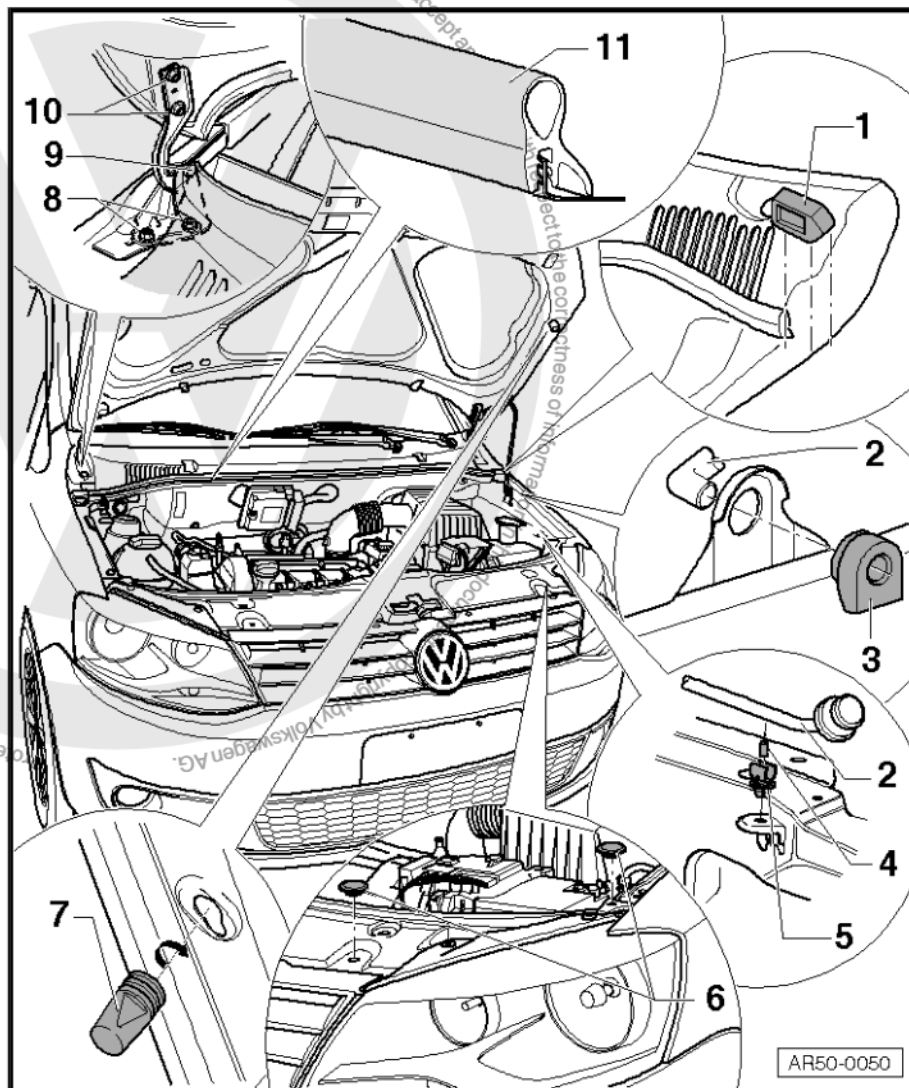
- ☐ 2 parts per hinge
- ☐ 24 Nm

11 - Front bonnet fitting

- ☐ Fitted over the flange

12 - Front hood

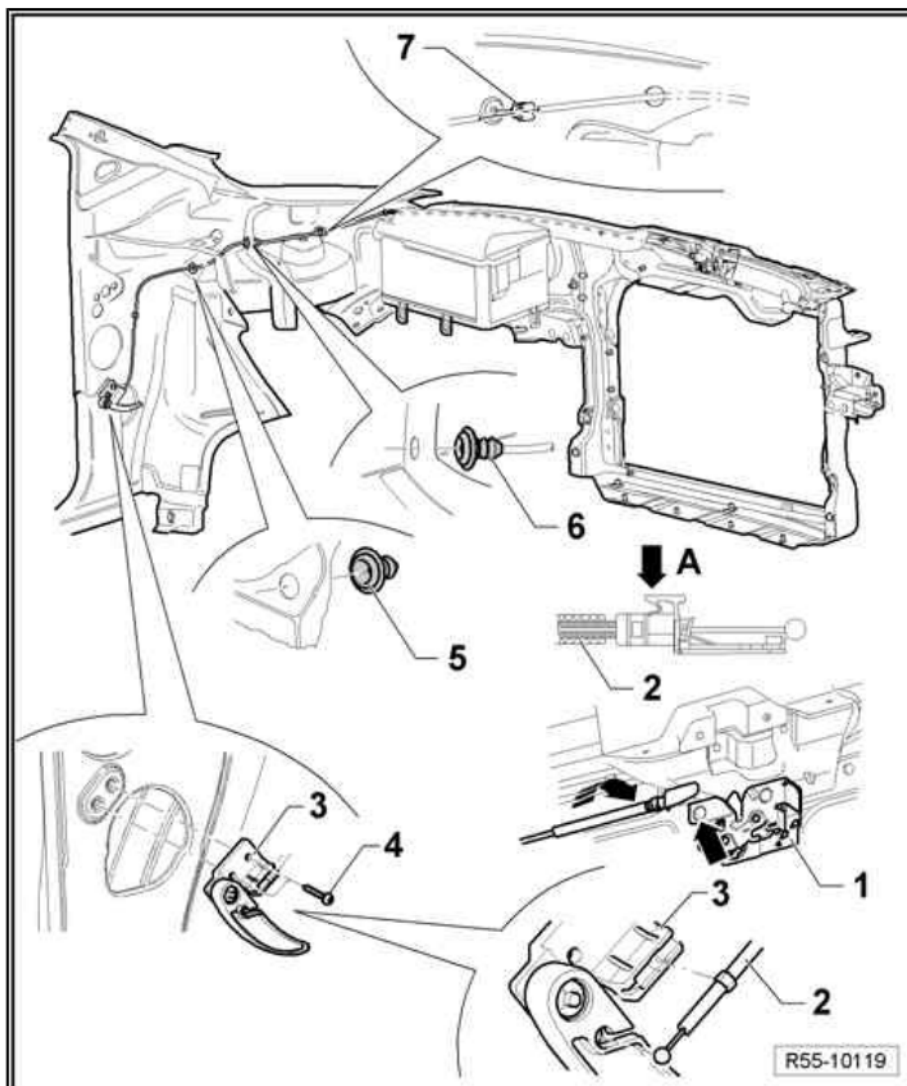
- ☐ Remove:
 - Remove windshield wiper and ejector pipes.
 - Loosen the screws -9- from the front hood and remove the hood.
- ☐ Adjust ⇒ [page 18](#)





1.9 Operation cable (up from model-year 2011) - Assembly overview

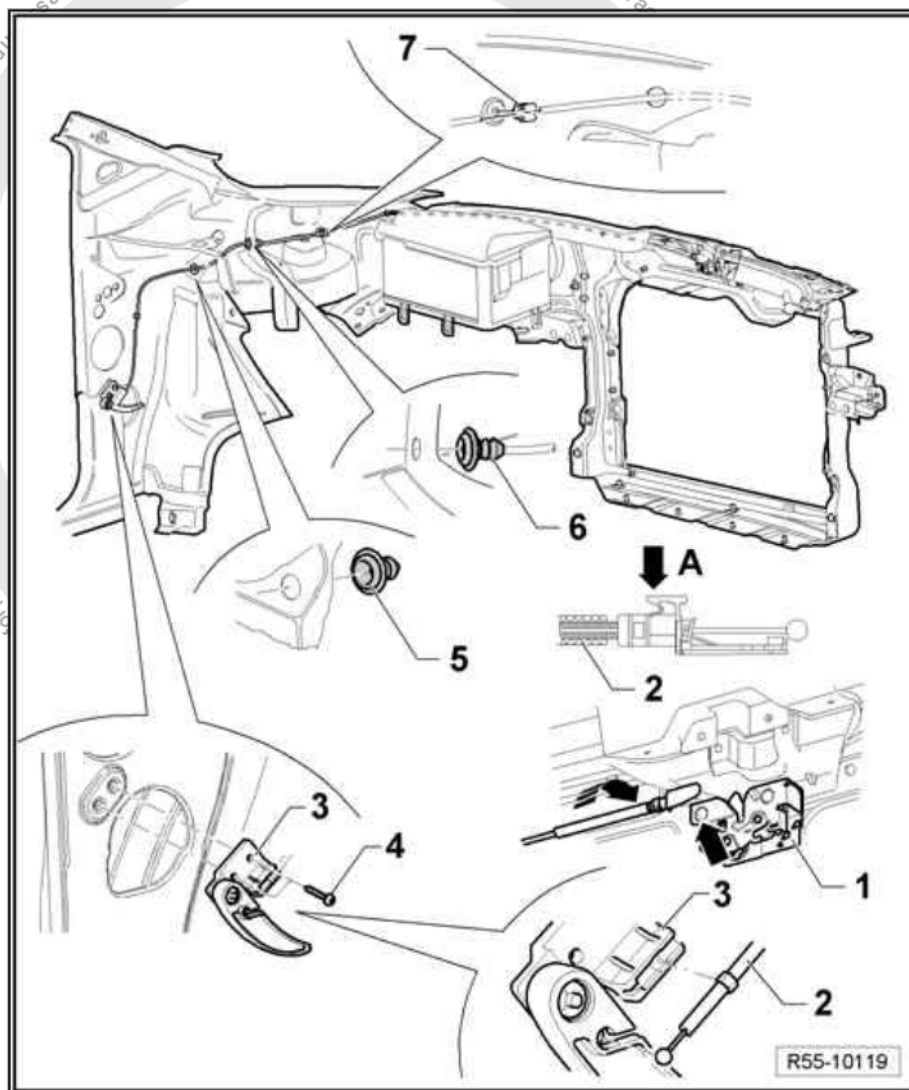
- 1 - Front hood latch
 - ☐ Assembly overview
⇒ [page 31](#)
 - ☐ Remove and install
⇒ [page 31](#)
- 2 - ?Operation cable
 - ☐ Remove and install
⇒ [page 29](#)
- 3 - Operating lever
 - ☐ With support
- 4 - Screw
 - ☐ 1.5 Nm
- 5 - Sealing eyelet
 - ☐ From the water deflector panel to the passenger compartment
- 6 - Seal bushing
 - ☐ From the engine compartment to the water deflecting panel.
- 7 - Operation cable securing clip
 - ☐ 2 parts





1.10 Operation cable (up from model-year 2011) - Remove and install

1.10.1 Removal

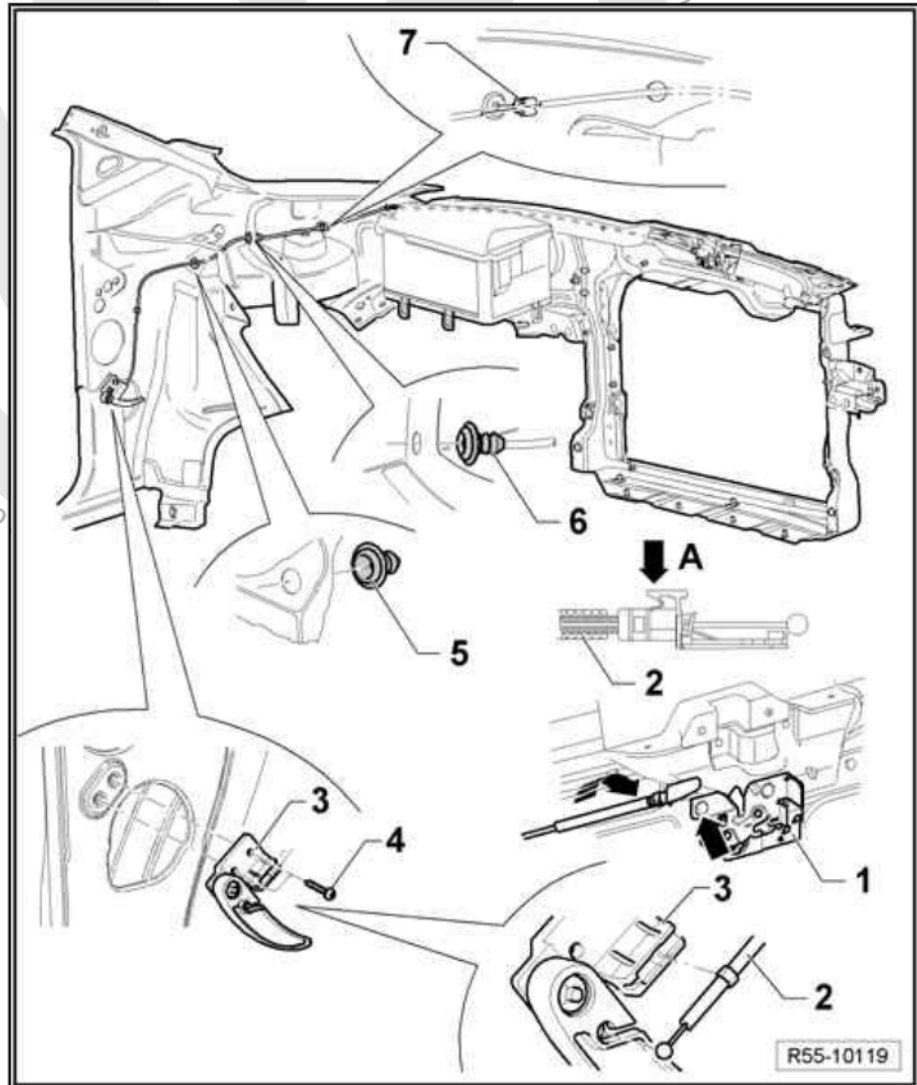


- Remove Control unit for onboard wiring harness -J519- and the corresponding support. Disengage the relay plate and put it aside, then remove the three bolts attaching the relay plate support.
- Remove the windshield lower trim ⇒ [page 205](#).
- Press the cable latch -2- in the direction of -arrow A- and disengage the cable -2- from the ball housing at the hood inner latch -1-.
- Disengage the actuating cable -2- from the housing of the lever-3- that operates the cable.
- Remove the attaching screws -4- from the control lever and disengage the A pillar control lever.
- Pull the cable through the engine compartment side. Disengage the eyelet cable -5- and -6-. Disengage the clip cable -7-.



- Pull the operation cable -2- in the direction of engine compartment.

1.10.2 Installation



Installation happens in reverse order, ensure the following:



Note

Check the correct position of the eyelet -5- and -6- for passage of the cable in order to avoid leakages.

- Check the operation of the latch and the opening mechanism before closing the screws.



1.11 Latch and front hood stop (up from model-year 2011) - Assembly overview

1 - Front hood latch safety hook

- ☐ Align with the stop handle

2 - Front hood stop handle

3 - Front hood latch

- ☐ Remove and install
⇒ [page 33](#)

4 - Front hood latch

- ☐ Remove and install
⇒ [page 31](#)

5 - Screw

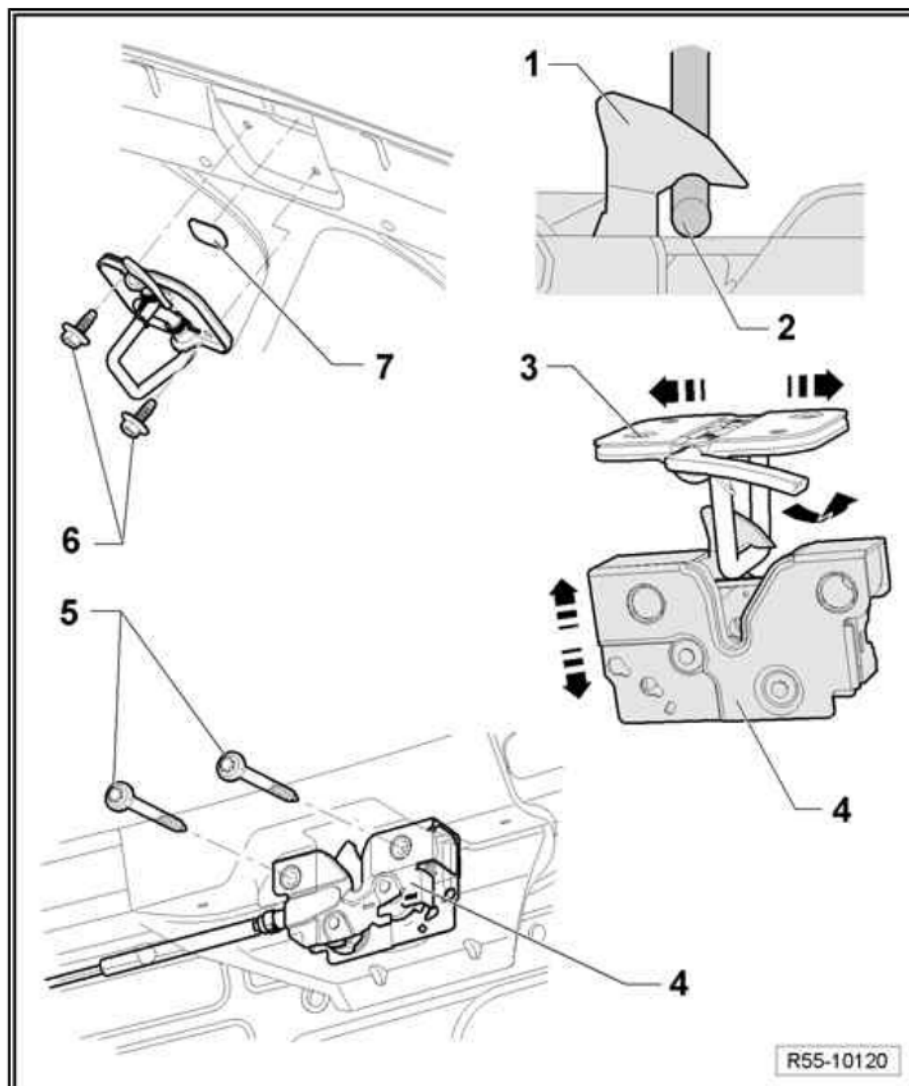
- ☐ 12 Nm

6 - Screw

- ☐ 12 Nm

7 - Protective adhesive tape

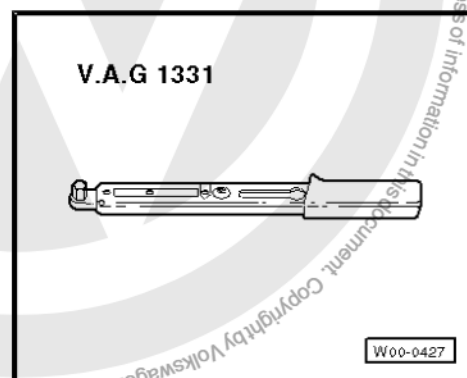
- ☐ The self-adhesive surface of the tape should not be touched anyway.
- ☐ Clean the application area with the Adhesive remover -D 002 000 10- and, then, apply the Cleaning solution -D 009 401 04-



1.12 Front hood latch (up to the model-year 2011) - Remove and install

Special tools and workshop equipment required

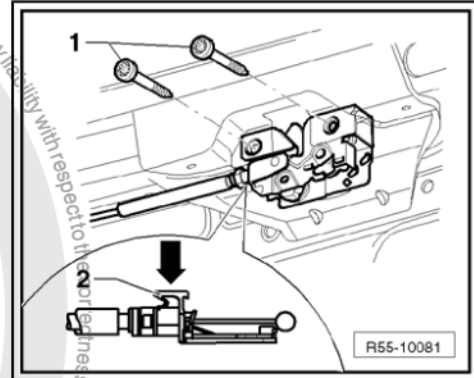
- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-



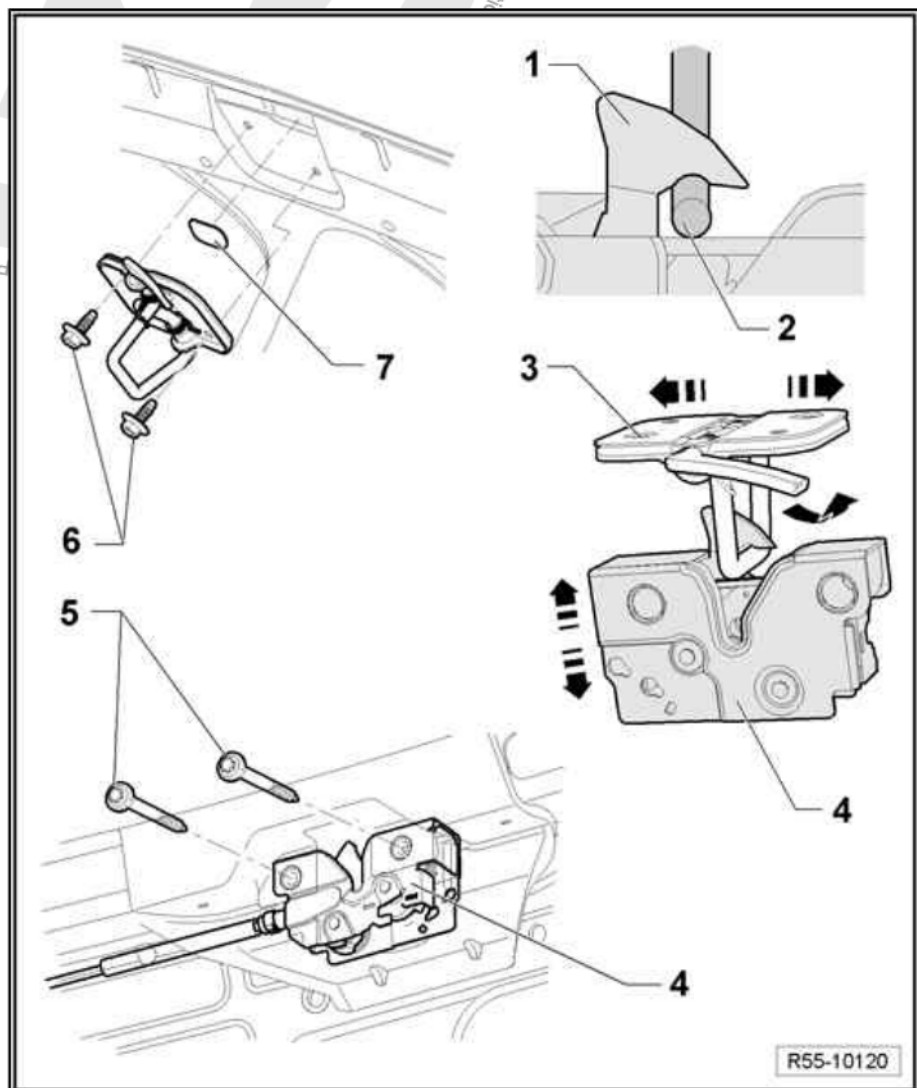


1.12.1 Removal

- Press the cable latch -2- and disconnect the latch operation cable.
- Remove screws -1- and remove the latch.



1.12.2 Installation



- Install the latch operation cable.
- Place the latch and install the screws -5-. Do not tighten the screws.
- Adjust the latch through the oblong holes.



i Note

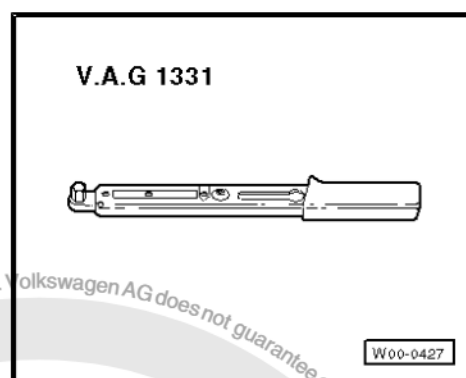
Align the stop handle center -1- concerning the latch safety hook center -2-.

- Check the clearance measures ⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .
- Tighten screws permanently.
- ◆ Screws torque -5-: 12 Nm.

1.13 Front hood stopper (up from model-year 2011) - Remove and install

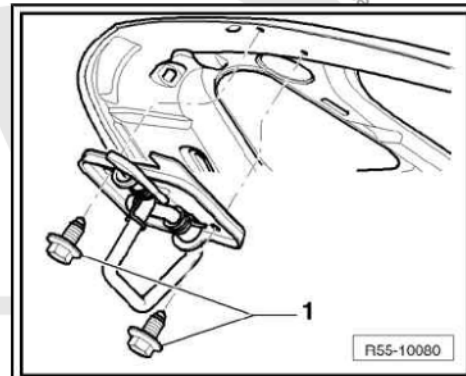
Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

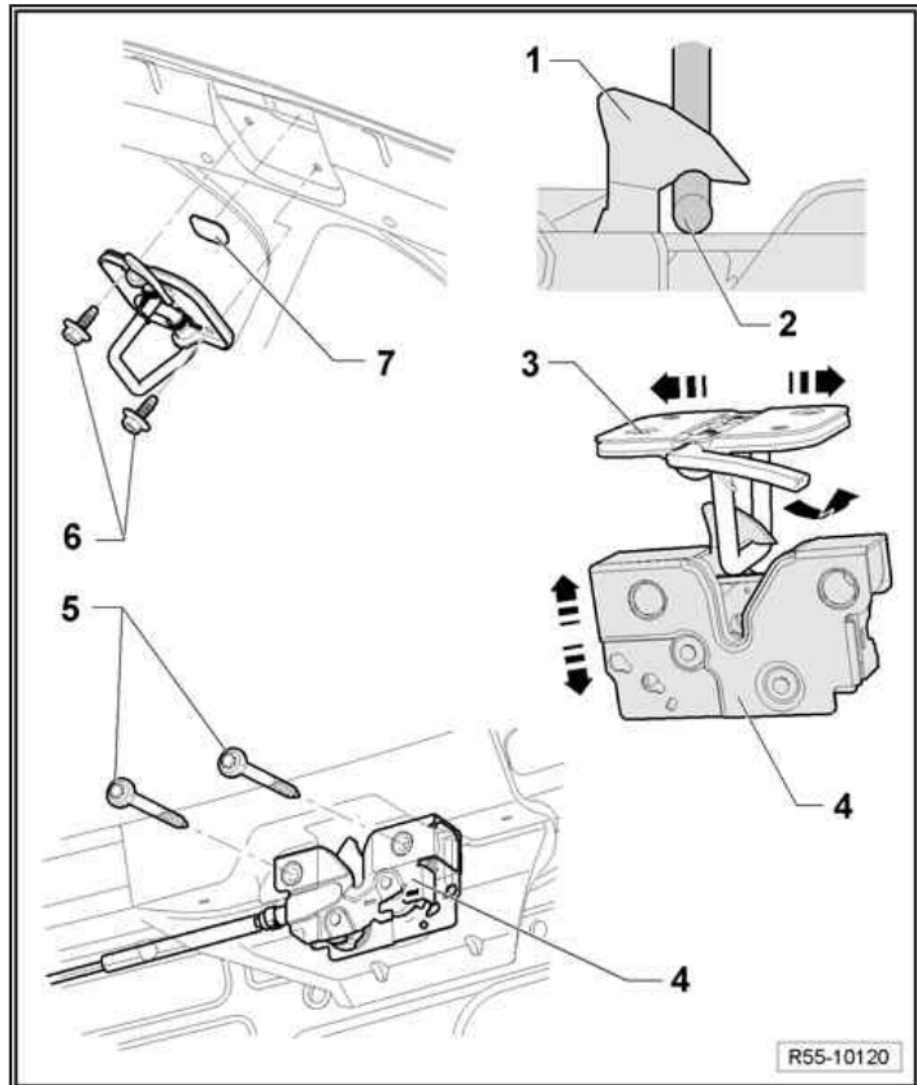


1.13.1 Removal

- Remove screws -1-.



1.13.2 Installation



- Place the latch and install the screws -6-. Do not tighten the screws.
- Adjust the stop through the oblong holes.



Note

Align the stop handle center -1- concerning the latch safety hook center -2-.

- Check the clearance measures ⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .
- Tighten screws permanently.
- ◆ Screws torque -6-: 12 Nm.



2 Rear lid

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

V.A.G 1331



W00-0427

2.1 Assembly overview

1 - Rear lid

- ☐ Adjust ⇒ [page 41](#)

2 - Lining

- ☐ Remove and install ⇒ Body - internal mountings; Rep. Gr. 70 ; Rear hatch lining - Removal and installation

3 - Rear lid latch

- ☐ Remove and install ⇒ [page 43](#)

4 - Cover

5 - Adjustment stopper

- ☐ Adjust ⇒ [page 41](#)

6 - Rear lid shock absorber

- ☐ Remove and install ⇒ [page 36](#)
- ☐ Replace ⇒ [page 37](#)
- ☐ Lubricate the eyelets with Lubricating grease -G 052 745 A3- , refer to ⇒ Chemical Materials Manual.

7 - Screw

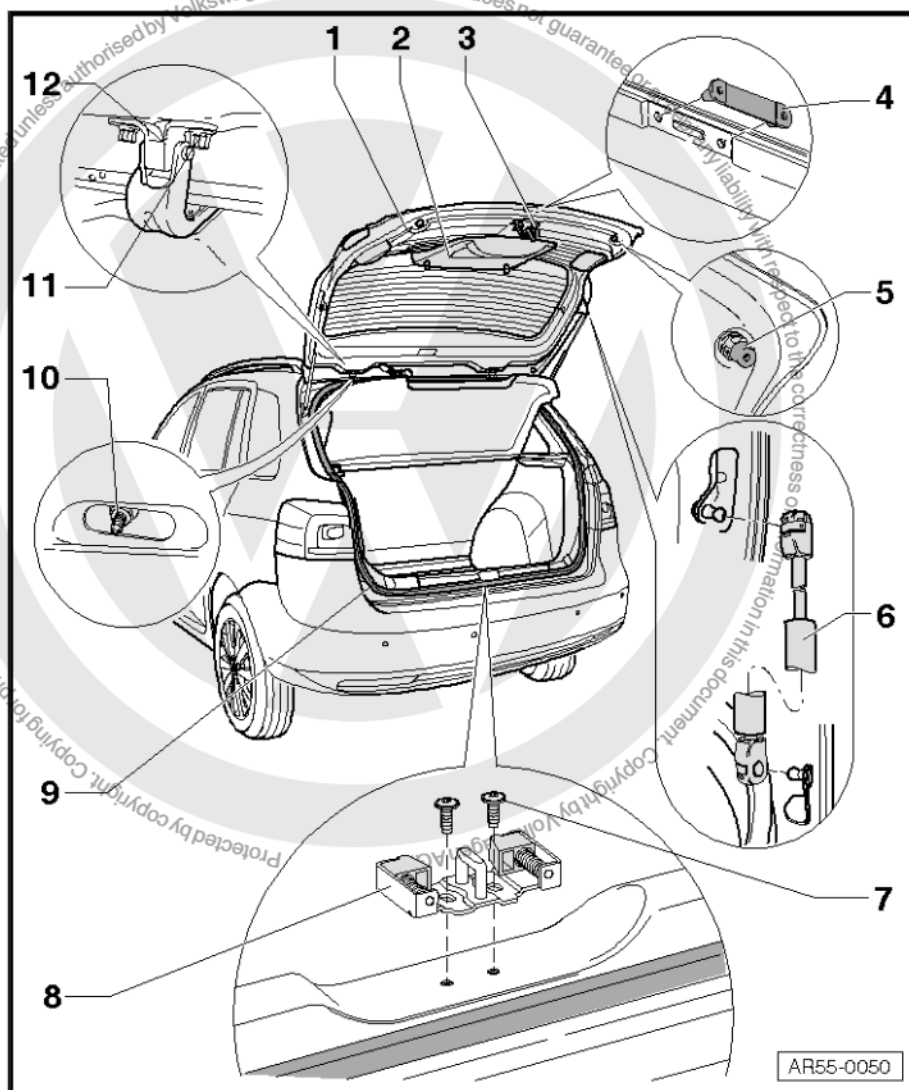
- ☐ 2 parts
- ☐ 8 Nm

8 - Stopper

- ☐ Remove the rear panel lining for access ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation

- ☐ Adjust: Through oblong holes

- ☐ Shut lines/gaps ⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .





9 - Lid seal

- ☐ In case of replacement, the new part shall be installed by slightly hitting it with a rubber hammer
- ☐ In case of removal, press the seal flanks prior to installation
- ☐ The junction of the seal ends shall be placed between lid latch and left tail light

10 - Hexagon nut

- ☐ 24 Nm

11 - Screw

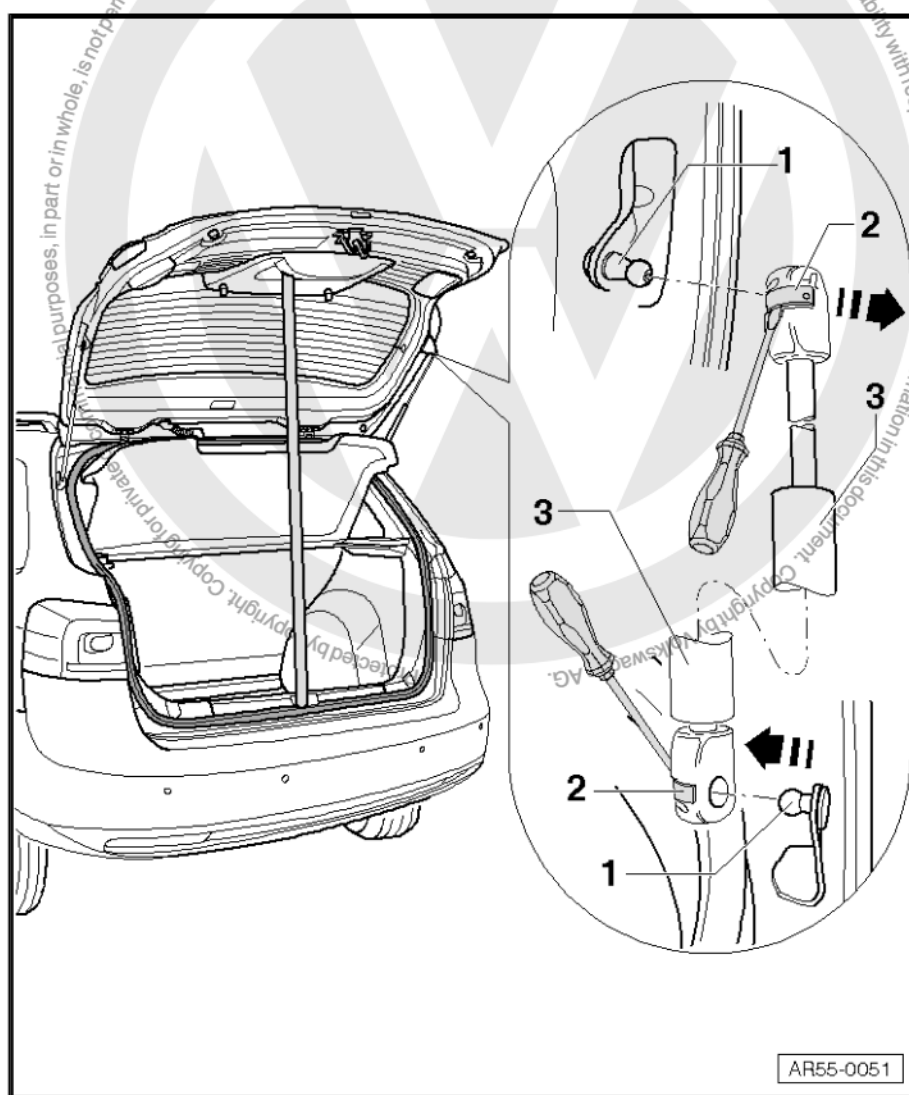
- ☐ 10 Nm

12 - Hinge

2.2 Rear lid shock absorber - Remove and install

2.2.1 Removal

- Prop up the rear lid.





- Using the screwdriver, raise the locks -2- only enough to loosen the shock absorber -3- from the joint pins -1-.
- Remove the shock absorber.



Note

- ◆ After removing the shock absorber, reinstall the locks -2- in the original position.
- ◆ Do not disengage the clip completely in its housing. Otherwise, it will be damaged and accidents or material damages may occur.

2.2.2 Installation

Installation is carried out in the reverse order of removal.

2.3 Rear hood shock absorber - Renew

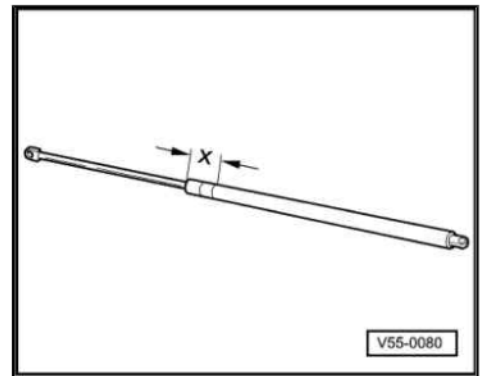
- Attach the shock absorber to the vice, in area X = 50 mm.



DANGER!

Fastening shall to be performed in this area only, otherwise there is risk of accident!

- Saw the shock absorber cylinder on the first third part of its full length, from the reference corner on piston rod side.



Note

- ◆ Wear safety goggles when cutting with saw.
- ◆ Cutting area shall be covered with a cleaning cloth.
- ◆ Oil and cloth shall be duly disposed.

2.4 Tailgate/boot lid packing - Remove and install



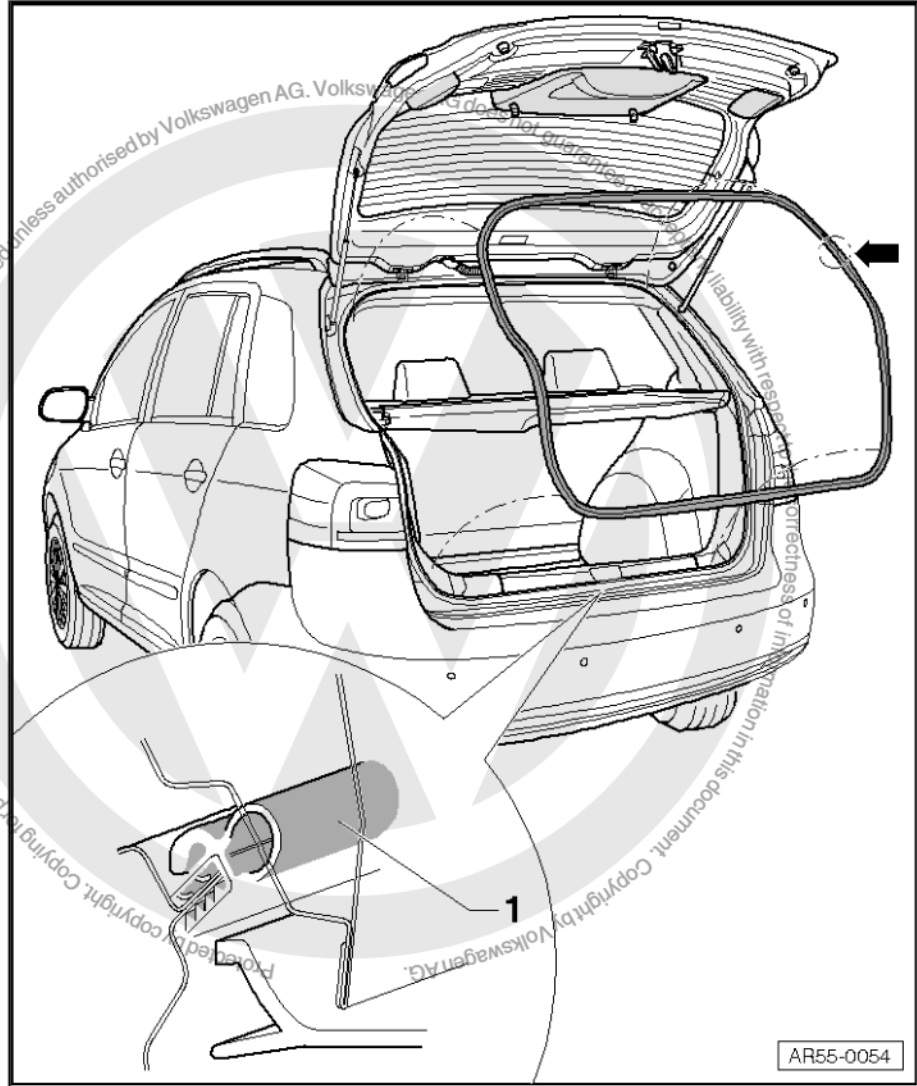
Note

- ◆ For partially removed packing, it is necessary to press the sides before assembly.
- ◆ The new part should be installed by hitting lightly with a rubber hammer.



1 - Tailgate/boot lid seal

- To install the packing, start from the flange closest to the rear left taillight -arrow-.

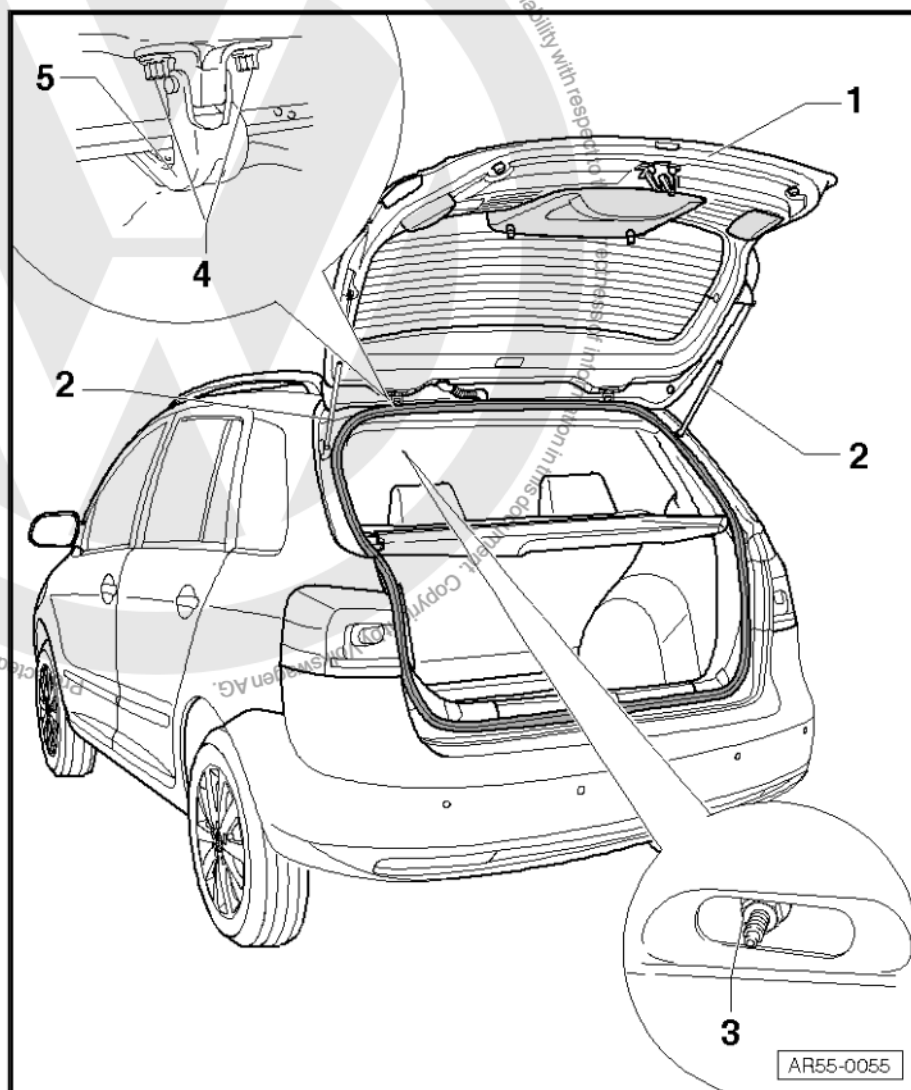


AR55-0054



2.5 Rear lid - Remove and install

2.5.1 Removal



- Open rear lid -1-.
- Remove rear door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Disconnect the bonding and the rear window glass washer hose.
- Remove the wiring harness from the gate.
- Loosen the screws -4- from the hinge -5-.

It is required an assistant for the following items.

- Remove the rear lid shock absorber rod -2- from the rear lid -1-.
- Remove screws -4- and remove the cover.

2.5.2 Installation

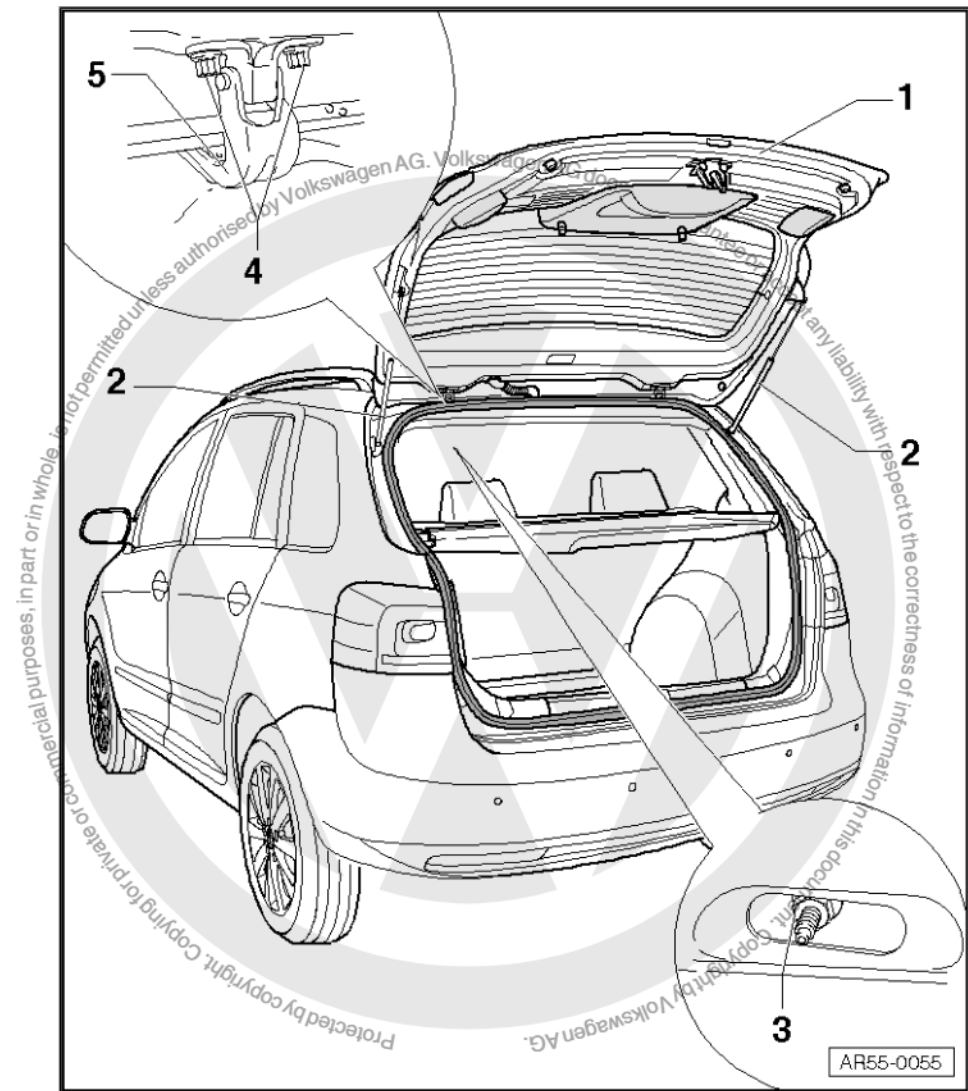
Installation is performed in the reverse sequence of the removal.



- Screws torque: 10 Nm
- Adjust hood ⇒ [page 41](#) .
- Before closing the lid, check the operation of the rear lid locking device motor.

2.6 Tailgate/boot lid hinge - Remove and install

2.6.1 Removal



- Remove rear lid -1-.
- Remove the lining from column C ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- Lower the roof trim ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- Remove the nut -3- that attaches the hinge and the roof rear member.

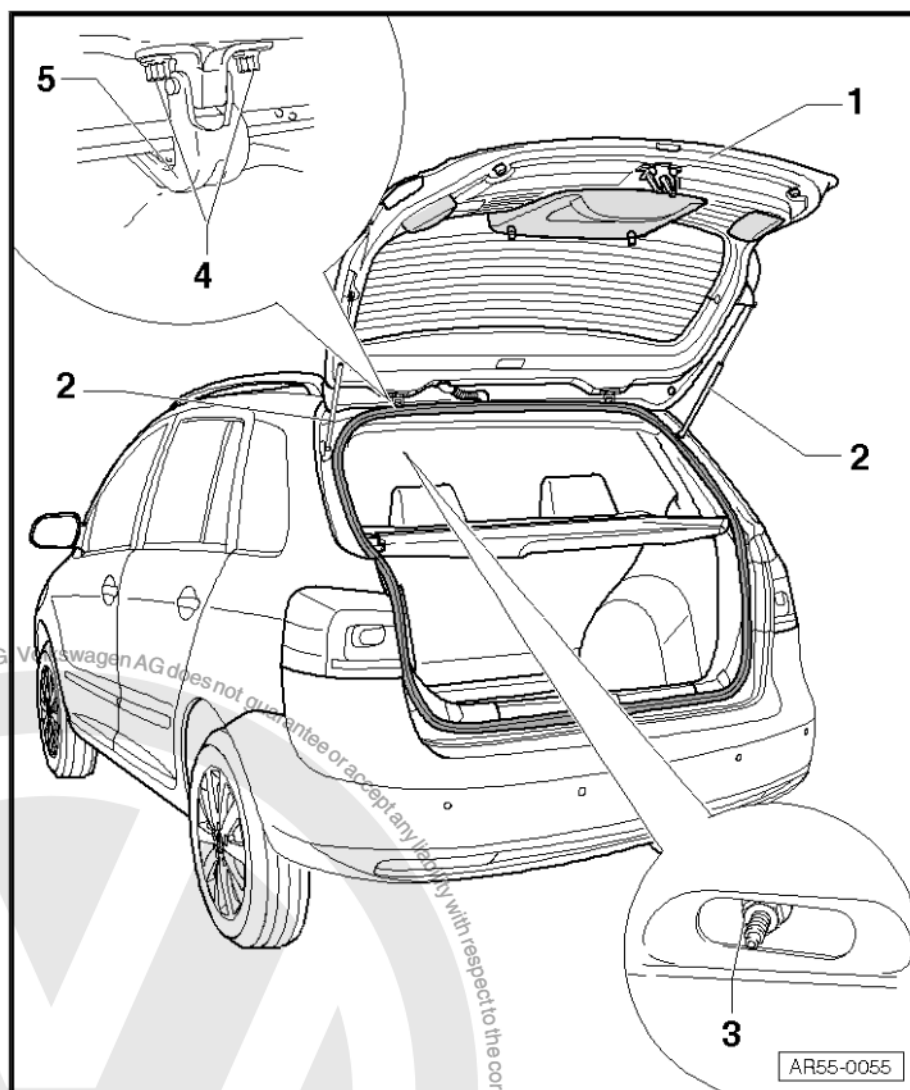


2.6.2 Installation



Note

Apply nut torque -3- after installing the rear lid -1-.



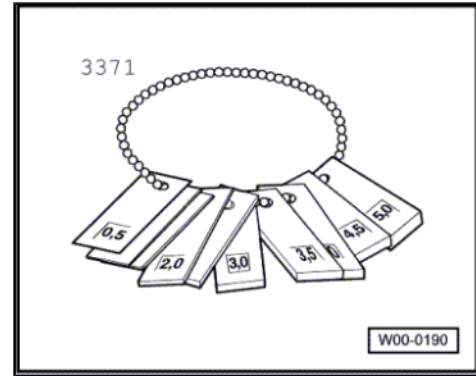
- Install the hinge -5- and tighten the nut -3- with a torque of 24 Nm.
- Install the rear lid.
- Apply the nut once again -3- with a torque of 24 Nm.
- Install the C pillar lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Install the headliner ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .

2.7 Lid - Adjust

Special tools and workshop equipment required



♦ Adjustment gauge -3371-



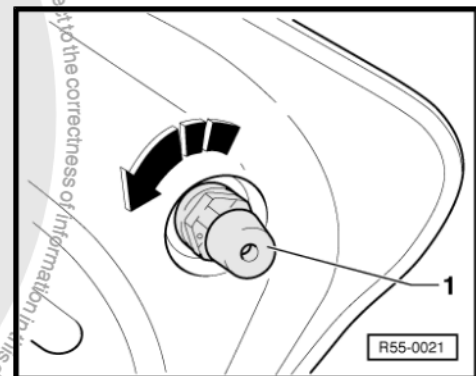
Note

- ♦ The lid is properly adjusted when the clearance is the same at all points when it is closed, not too much to the inside nor to the outside when the borders fit.
- ♦ In order to perform the adjustment, the vehicle shall be with all wheels on the ground.

Turn the adjustment stopper -1- with a ring spanner (SW 24) in 90° and remove it.

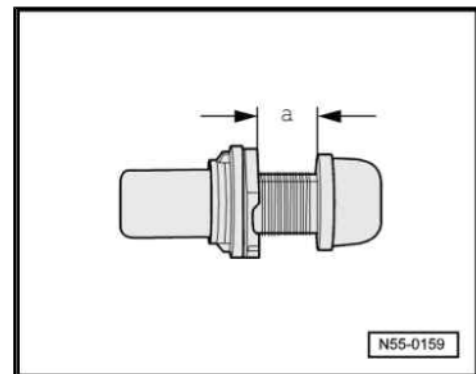
Loosen the fixing screw (inner hexagon 3 mm) until the coupling gate can be removed.

- Pull the coupling gate out of the housing and adjust measurement to $a = 12.5$ mm.



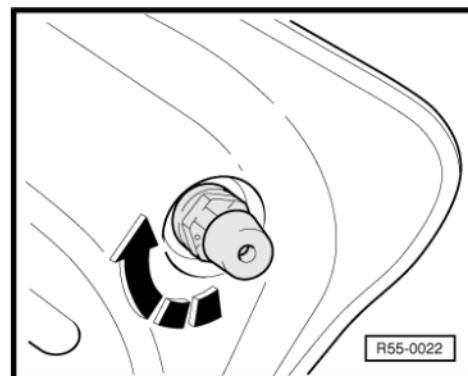
Note

When new, the buffer is already adjusted to a 12.5 mm distance.

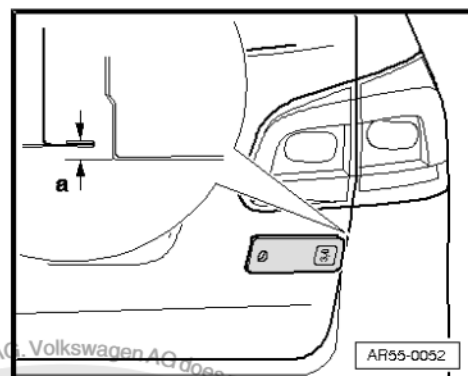




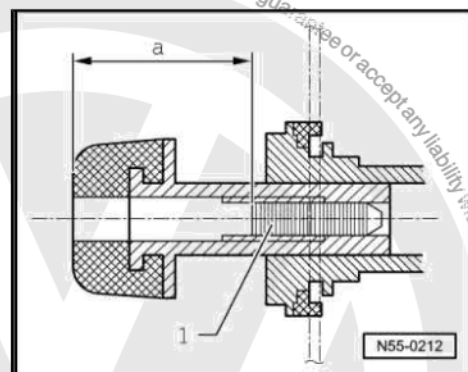
- Install the adjustment stopper and assemble it on the profile hole with a 90° turn.
- Close the rear lid until the preliminary lock by slightly pressing it on the central area.



- Adjust 1 mm clearance measurement between the lid and the side panel with the adjustment gauge -3371-.
- Open the rear lid again.
- The lid is now adjusted with pre-tension of approx. 1 mm.



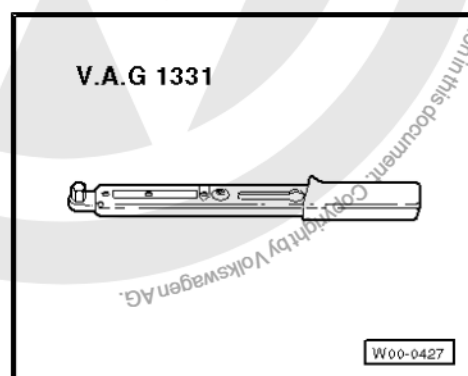
- Tighten the fastening screw -1- until the measure $a = 25$ mm.
- Check adjustment.



2.8 Front hood latch (up to the model-year 2010) - Remove and install

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-





1 - Screw

- 8 Nm

2 - Latch

- Removal:

- Remove screws
⇒ [Item 1 \(page 44\)](#)
- Pull off connector
⇒ [Item 12 \(page 44\)](#)
and remove the latch towards the hood.

- Installation:

- Place the latch and tighten the screws
⇒ [Item 1 \(page 44\)](#)
- Push on connector
⇒ [Item 12 \(page 44\)](#)

3 - Plastic support ring

4 - Seal ring

5 - Lock cylinder housing

- Removal:

- Remove the cylinder housing lock
⇒ [Item 10 \(page 44\)](#)
- Remove the cylinder housing.

- Installation:

- Install the cylinder housing along with its lock (observe the lock).

6 - Connector

7 - Lock engine

- Removal:

- Loosen the screws some threads ⇒ [Item 11 \(page 44\)](#)
- Displace the engine on the lid plate oblong holes and remove it.
- Disengage the inversion lever ⇒ [Item 8 \(page 44\)](#)
- Pull off connector ⇒ [Item 6 \(page 44\)](#)

- Installation:

Installation is carried out in the reverse order of removal.

8 - Inversion lever

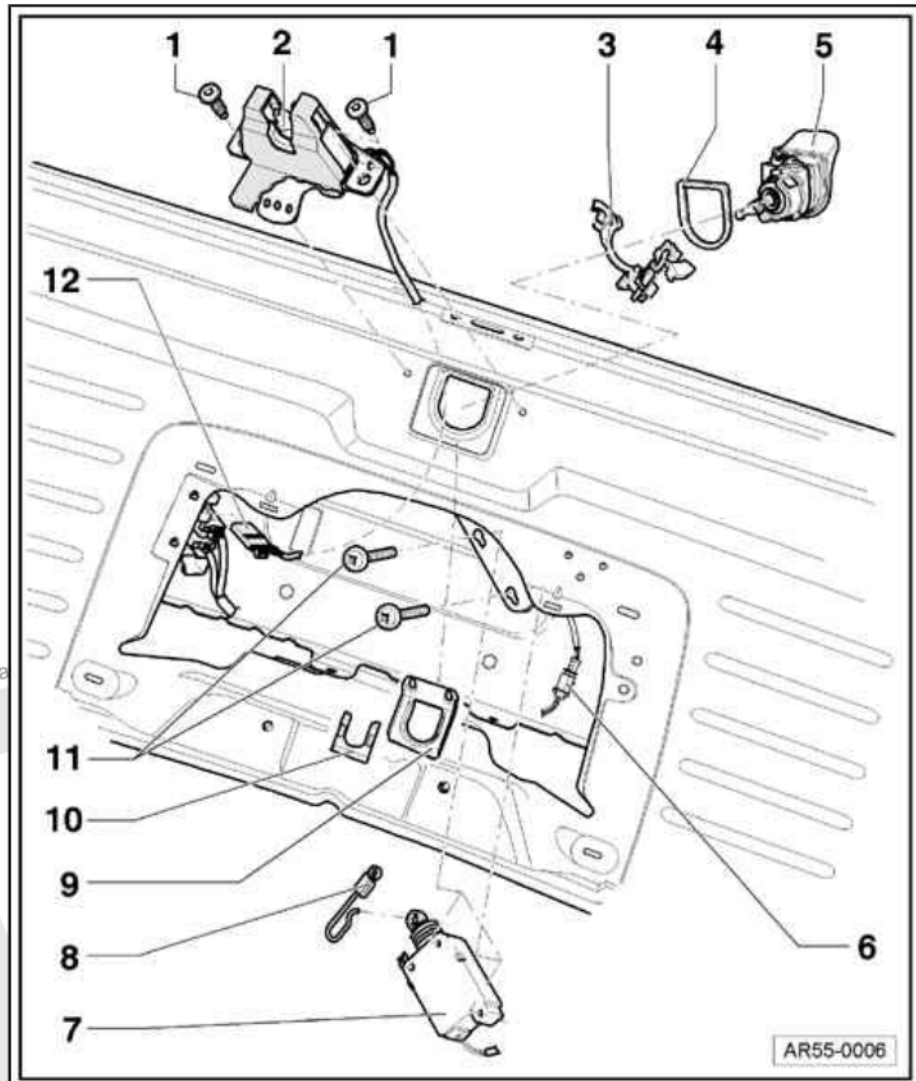
9 - Lock support

10 - Latch

11 - Screw

- 3 Nm

12 - Connector





2.9 Rear lid latch (up from model-year 2011) - Remove and install

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

V.A.G 1331



W00-0427

1 - Operation clip

2 - Bushing

3 - Lock cylinder

4 - Rear lid latch

□ Removal:

- Remove rear door lining
⇒ Body - internal
mountings; Rep. Gr.
70 ; Lining / Insulation .

- Disengage the rod -6- of
the bushing -2-.

- Disengage the opera-
tion clip -1- and discon-
nect the latch operation
rod -5-.

- Disconnect the wiring
harness of the trunk
lighting switch -F5-

- Remove screws -7- and
remove the latch.

□ Installation:

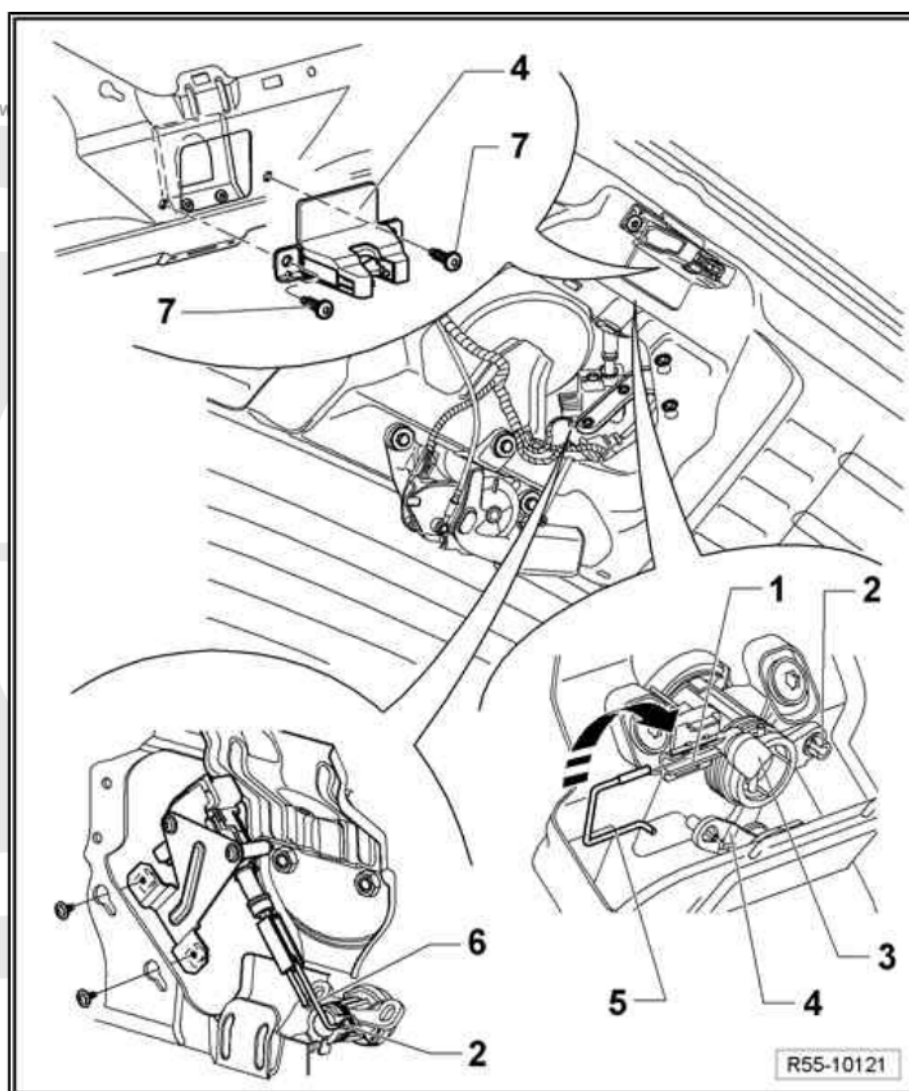
- Installation is performed
in the reverse sequence
of the removal.

5 - Lock operation rod

6 - Operation rod of Rear lid
release motor -V139-

7 - Screw

- 8 Nm



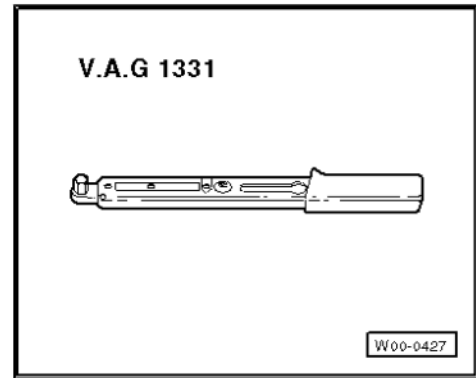
R55-10121

2.10 Rear lid lock cylinder handle (up to mod- el-year 2010) - Remove and install

Special tools and workshop equipment required



- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-



- 1 - Handle lock
- 2 - Switch support
- 3 - Coupling
- 4 - Screw
 - 9 Nm
- 5 - Reinforcement
- 6 - Wrench
- 7 - Foot pump
- 8 - Handle

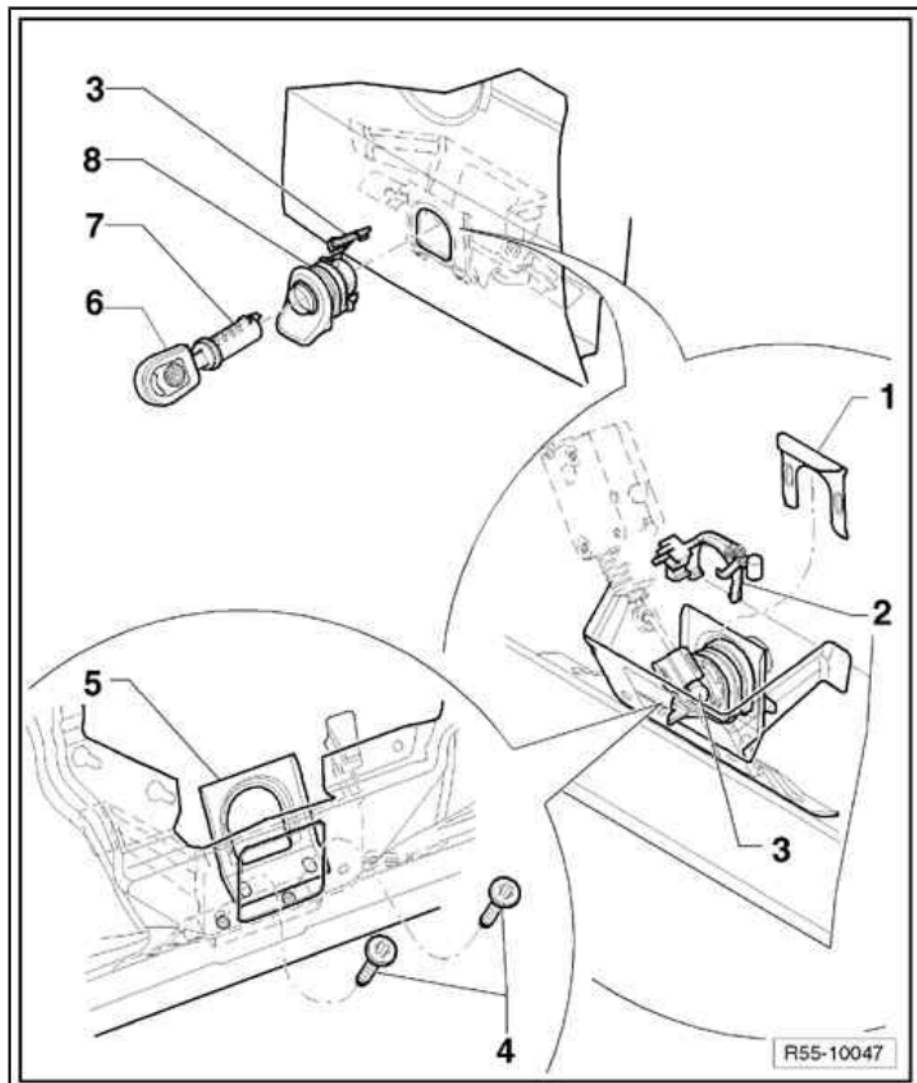
□ Removal:

- Remove rear door lining
⇒ Body - internal
mountings; Rep. Gr.
70 ; Lining / Insulation .
- Disengage the operation
rod -3- from the cyl-
inder actuator.
- Remove the handle lock
-1-.
- Disengage the handle
and remove it.

□ Installation:

- Installation is performed
in the reverse sequence
of the removal.

- 9 - Attachment of the device
motor actuating rod

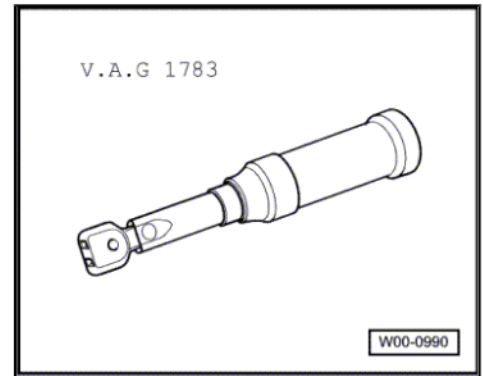


2.11 Rear lid release motor -V139- (up to model-year 2010) - Remove and install

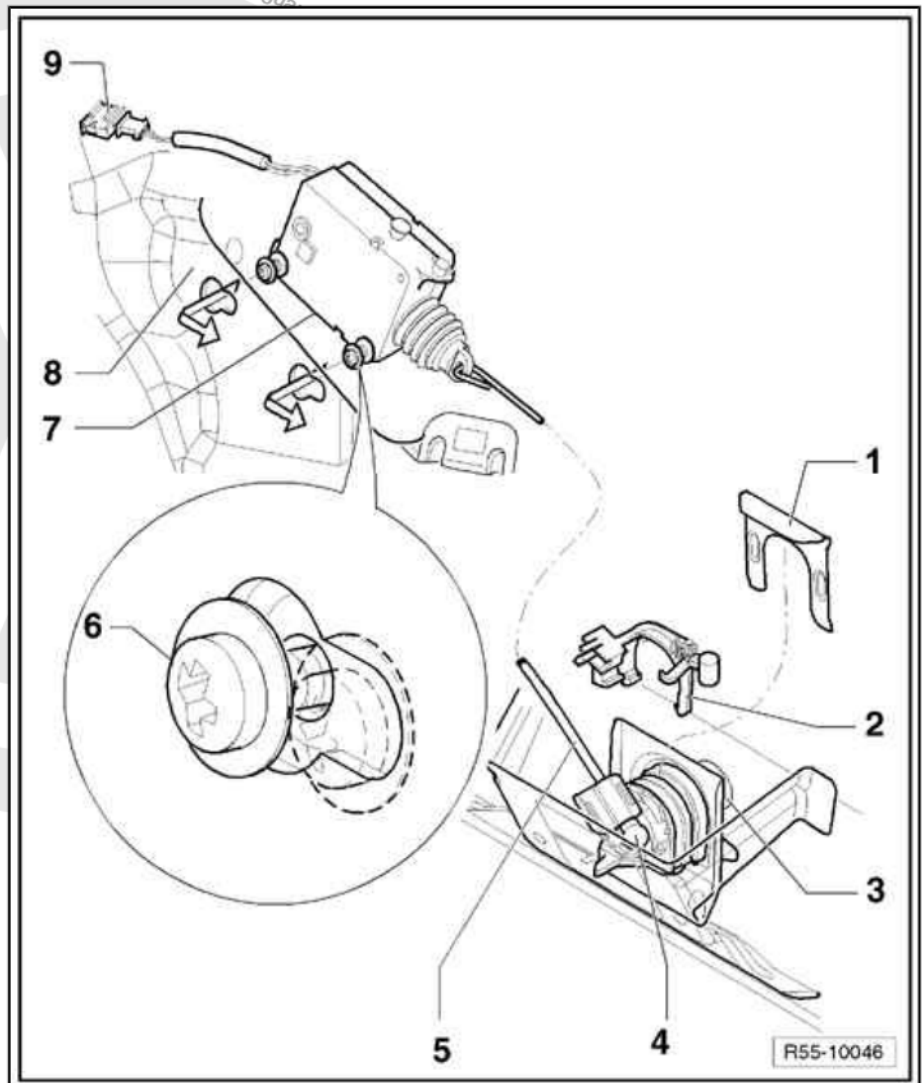
Special tools and workshop equipment required



- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



- 1 - Handle lock
2 - Support
3 - Rear lid handle
☐ Remove and install
⇒ [page 45](#)
4 - Coupling
5 - Operating rod
6 - Screw
☐ 2.5 Nm
7 - Rear lid release motor - V139-
☐ Removal:
- Remove rear door lining
⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Untighten the screws
⇒ [Item 6 \(page 47\)](#) .
- Displace the engine on the lid plate oblong holes and remove it.
☐ Disengage the coupling rod ⇒ [Item 3 \(page 47\)](#) .
☐ Installation:
- Installation is performed in the reverse sequence of the removal.
8 - Internal hatch panel
9 - Wiring harness connector

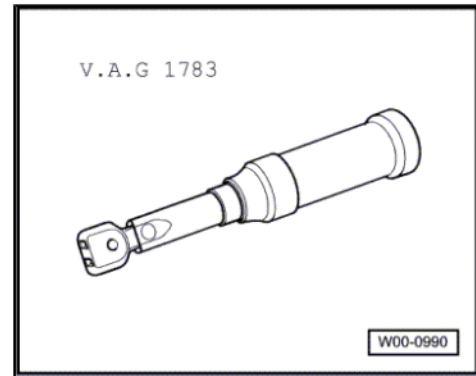


2.12 Rear lid release motor -V139- (up from model-year 2011) - Remove and install

Special tools and workshop equipment required



- ♦ Torque wrench 2 to 10 Nm -VAG 1783-



1 - Rear lid release motor - V139-

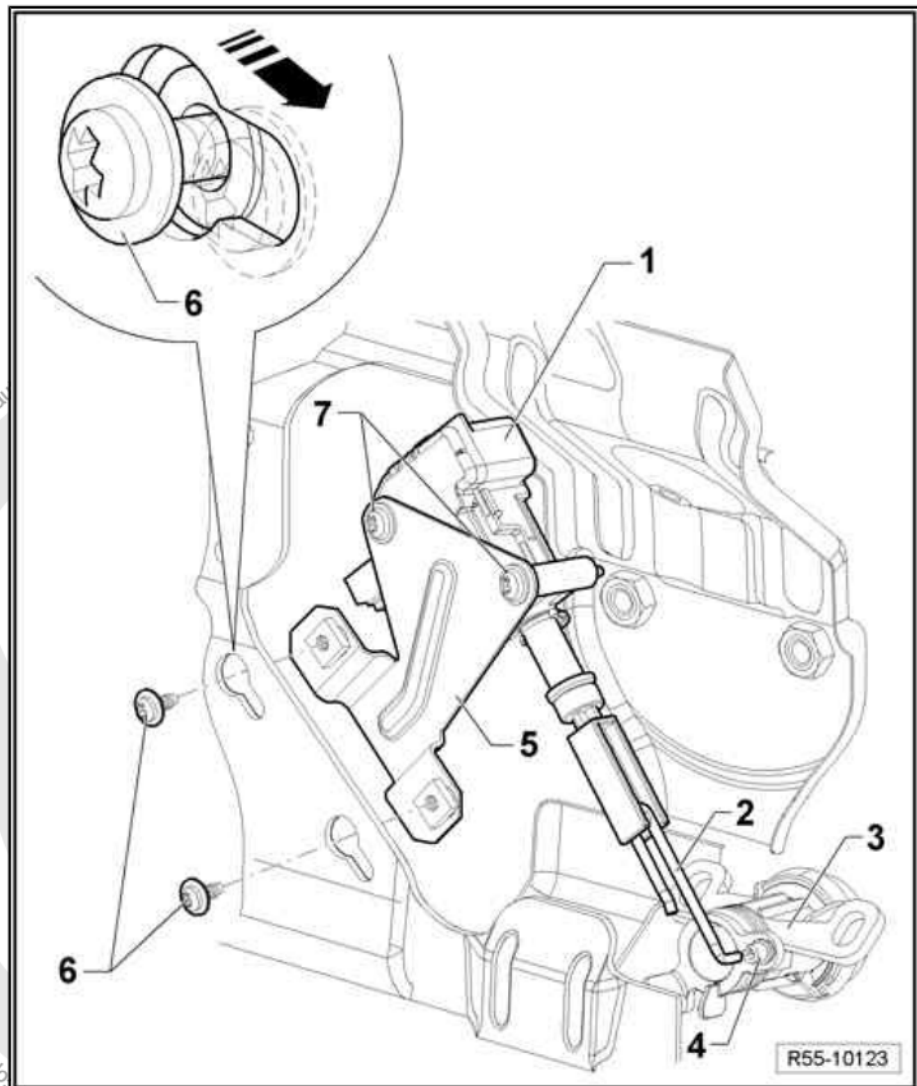
□ Removal:

- Remove rear door lining
⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Disconnect the motor wiring harness connector.
- Disengage the busing rod -4-.
- Untighten the screws -6-.
- Displace the support with the motor to the rear lid sheet oblongs and remove it.

□ Installation:

- Installation is performed in the reverse sequence of the removal.

- 2 - Operating rod
3 - Actuator
4 - Bushing
5 - Engine support
6 - Screw
□ 2.5 Nm
7 - Screw
□ 1.5 Nm





2.13 Lock cylinder (up to model-year 2010) - Assembly overview

1 - Cylinder guide

2 - Spring

3 - Stopper

4 - Retaining ring

5 - Actuator

- ☐ Without locking system
- ☐ Attached through the lock -26-

6 - Actuator

- ☐ For Rear lid release motor -V139-
- ☐ Attached through the lock -26-

7 - Roller

- ☐ to Rear lid release motor -V139-

8 - Spring

- ☐ to Rear lid release motor -V139-

9 - Coupling

- ☐ to Rear lid release motor -V139-

10 - Actuator

- ☐ to Rear lid release motor -V139-

11 - ?Lock ring

- ☐ to Rear lid release motor -V139-

12 - Actuator

- ☐ to Rear lid release motor -V139-

13 - Return spring

- ☐ to Rear lid release motor -V139-

14 - Spring

15 - Roller

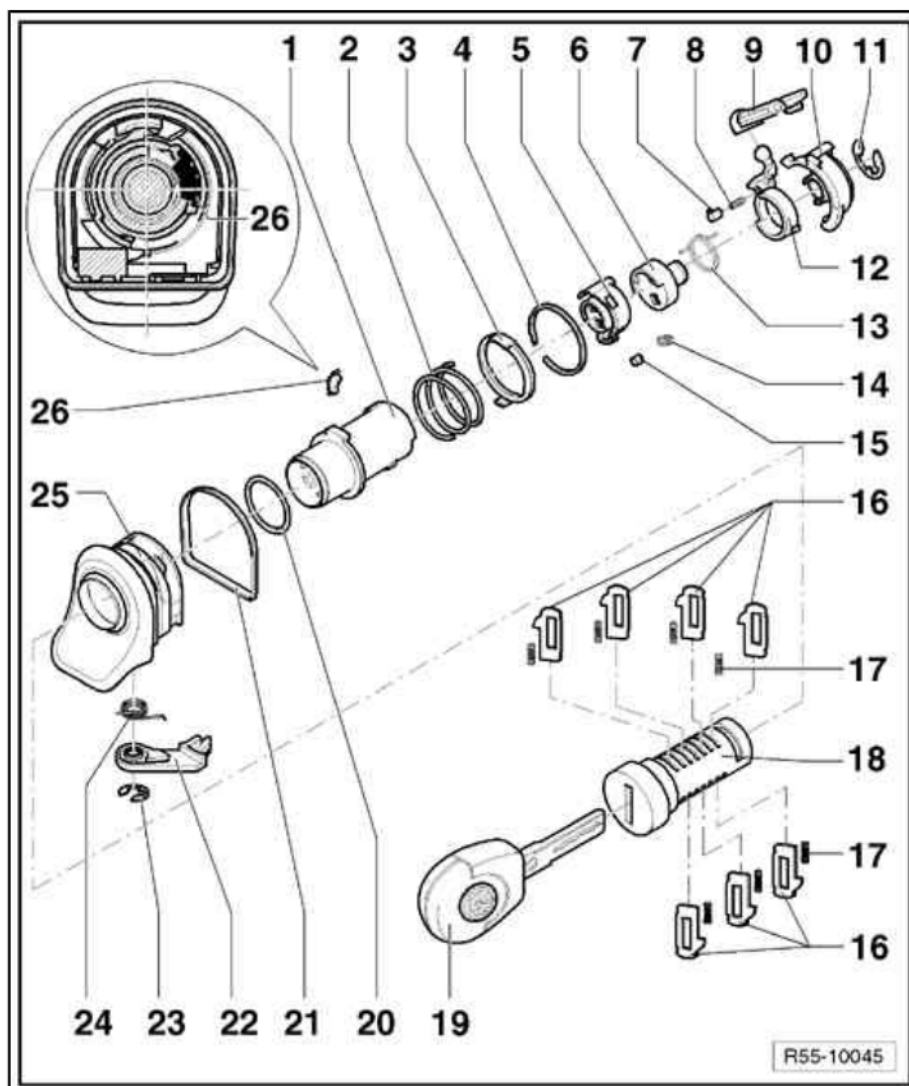
16 - Gorges

- ☐ Lubricate with -G 000 450 02-

17 - Spring

18 - Foot pump

- ☐ Lubricate with -G 000 450 02-
- ☐ Remove and install ➔ [page 50](#)



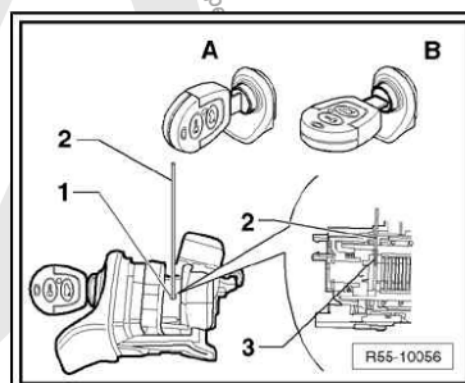


- 19 - Wrench
- 20 - Ring
- 21 - Tailgate/boot lid seal
- 22 - Lever
- 23 - ?Lock ring
- 24 - Spring
- 25 - Handle
- 26 - Latch

2.14 Lock cylinder (up to model-year 2010) - Remove and install

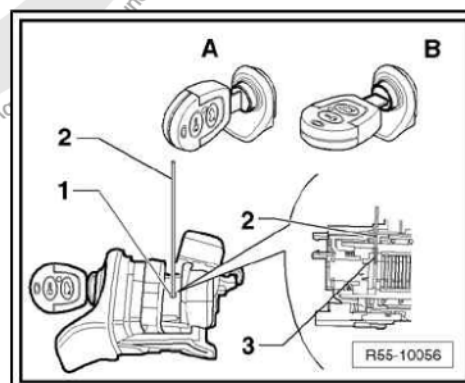
2.14.1 Removal

- Remove the handle. ⇒ [page 45](#).
- Insert the key into the cylinder.
- Position the ignition key -B-.
- Press the cylinder and insert a shim in order to access the hole -1-.
- With steel pin -2-, press the cylinder lock -3-.
- Remove the cylinder together with the key by turning the cylinder slowly to the left and to the right, carefully.



2.14.2 Installation

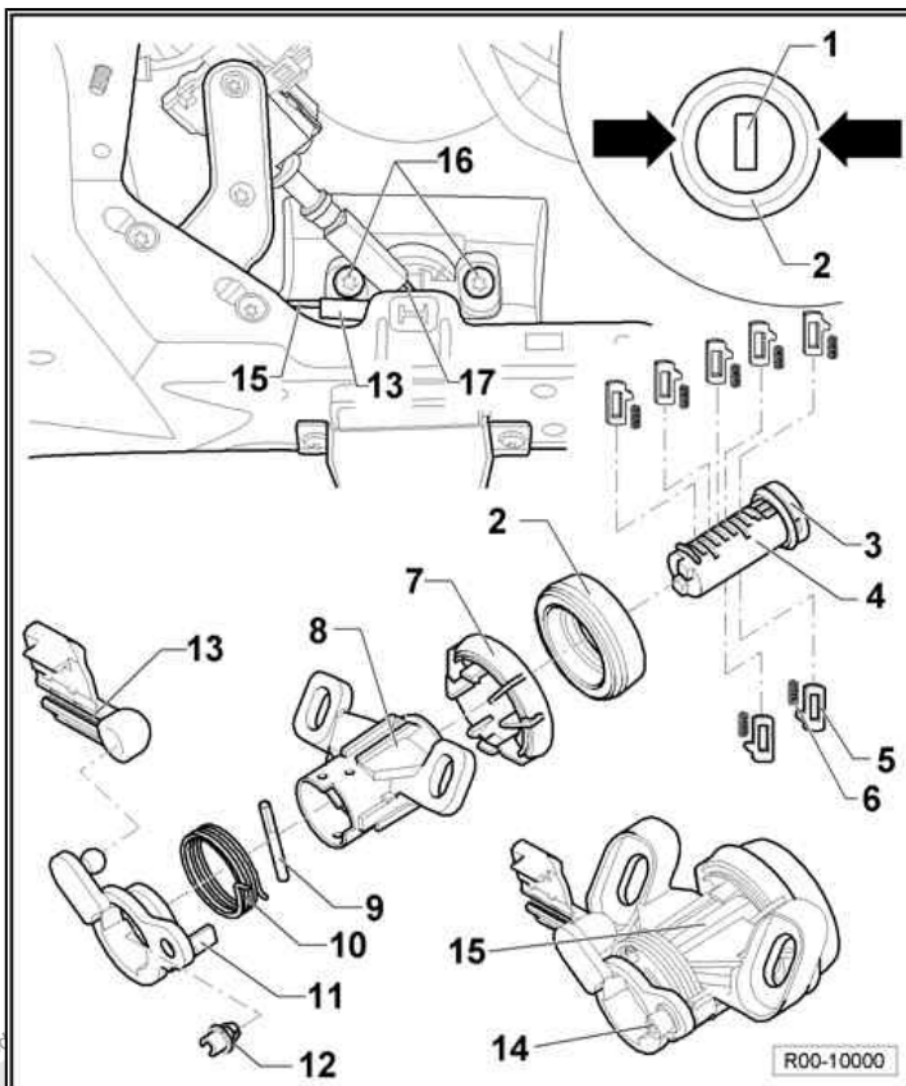
- Insert the cylinder with the key in position -A-.
- Press the cylinder against the handle until the lock locks. -3-.





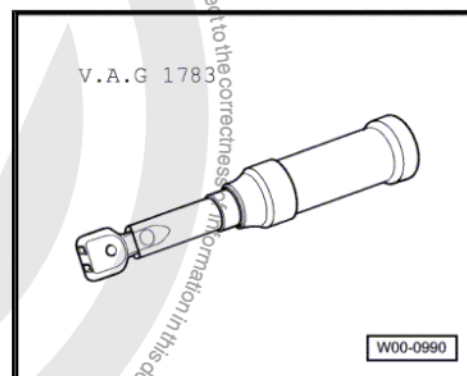
2.15 Lock cylinder (up from model-year 2011) - assembly overview

- 1 - Cylinder key through slot
- 2 - Seal ring
 - ☐ attached to the support -7-
- 3 - Cylinder seal ring
- 4 - Foot pump
 - ☐ Lubricate with -G 000 450 02-
- 5 - Gorges
 - ☐ Lubricate with -G 000 450 02-
- 6 - Spring
- 7 - Seal ring support
- 8 - Cylinder housing
- 9 - Elastic pin
- 10 - Return spring
- 11 - Actuator
 - ☐ locking system
 - ☐ attached through spring pin -9-.
- 12 - Clip
- 13 - Bushing
- 14 - Cylinder with housing assembled
- 15 - Lock operation rod
- 16 - Screw
 - ☐ 2 parts
 - ☐ 8 Nm
- 17 - Operation rod of Rear lid release motor -V139-



2.16 Lock cylinder (up from model-year 2011) - Remove and install

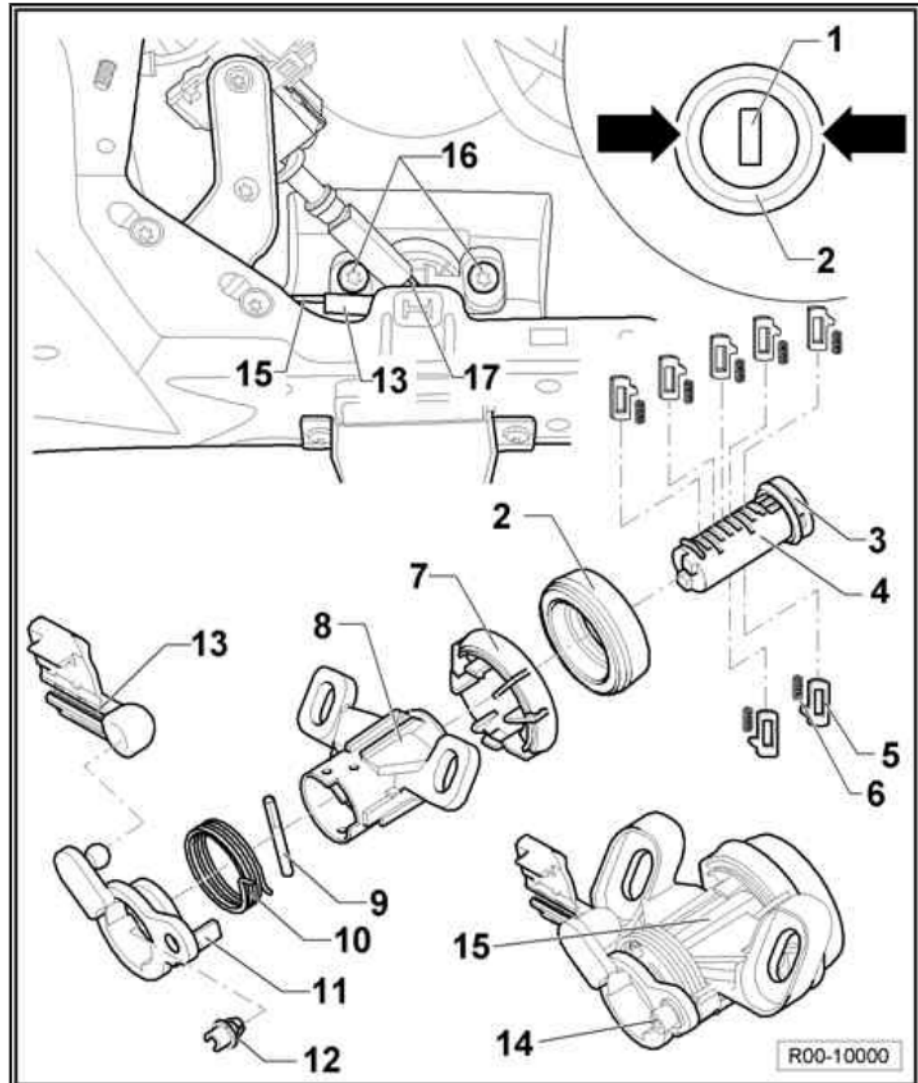
Torque wrench 2 to 10 Nm -VAG 1783-





2.16.1 Removal

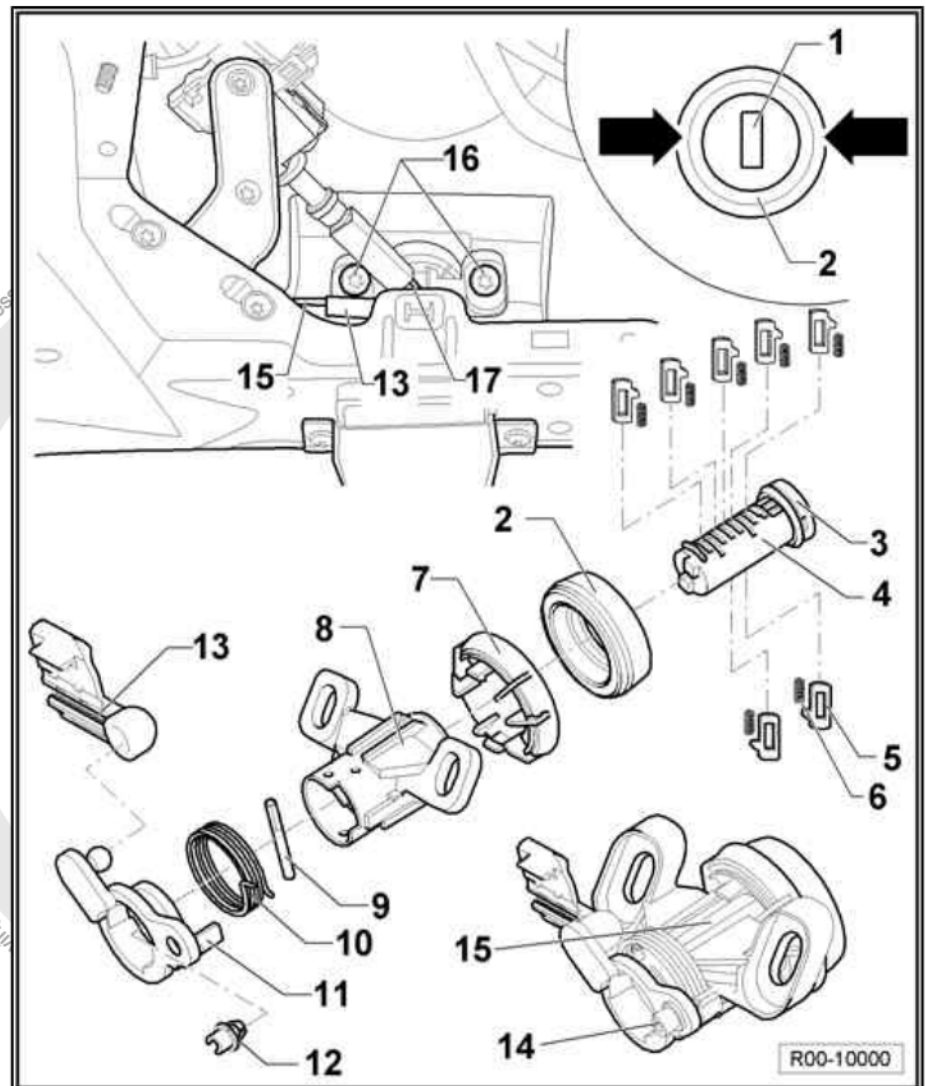
- Remove rear door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / insulation - Trunk linings .



- Disengage the operation clip -12-.
- Disengage the operation rod -15-.
- Disengage the operation rod Rear lid release motor -V139- of the bushing -13-.
- Remove screws -16- that attach the cylinder.
- Disengage the cylinder.

2.16.2 Installation

ing for private or commercial purposes, in part or in whole, is not permitted unless

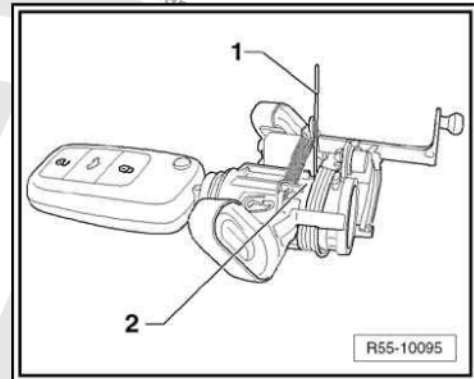


- Installation is performed in the reverse sequence of the removal.
- Position the cylinder in order to center it in the rear lid outer hole -arrows- and position the tear -1- of the cylinder vertically. The cylinder housing oblong holes allow this adjustment.



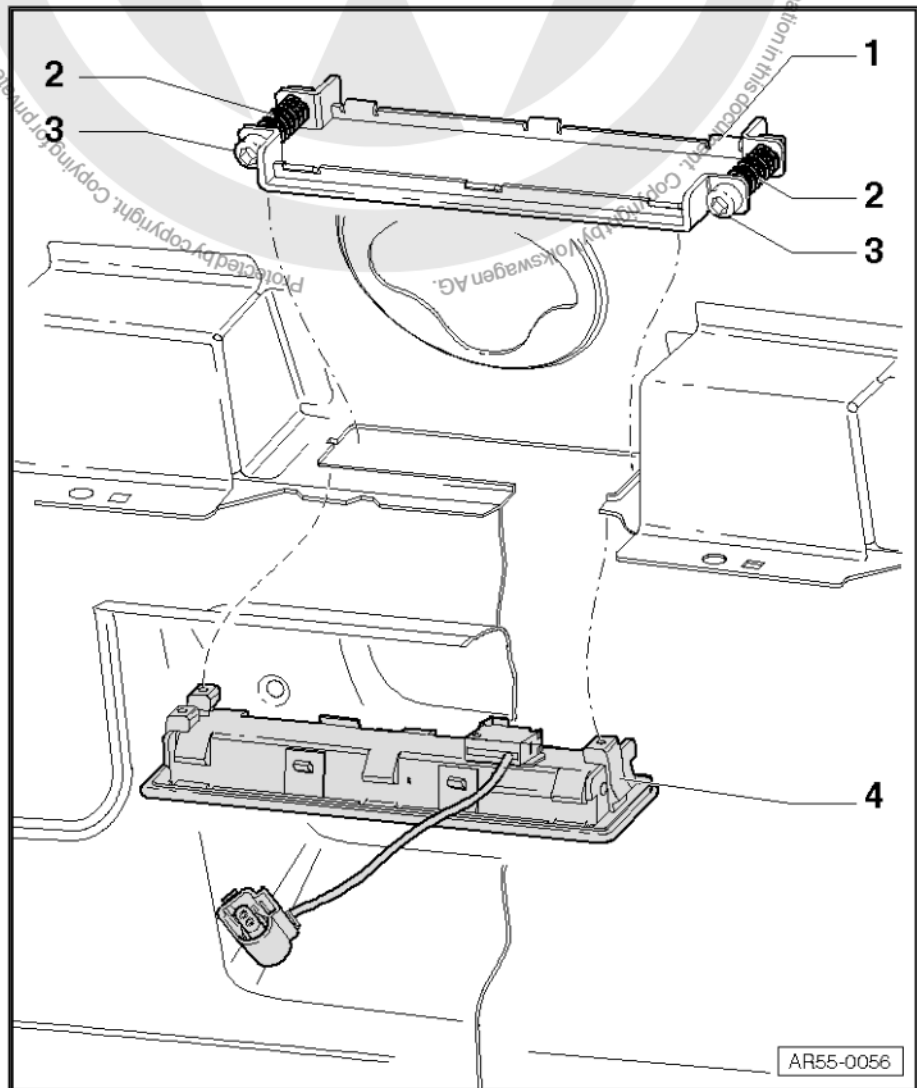
2.17 Lock cylinder (up from model-year 2011) - disassemble

- Remove the lock cylinder ⇒ [page 51](#)
- Insert the key into the cylinder.
- With a pin -1- of Ø2 mm, in the hole below the spring -2-, press the cylinder lock.
- Remove the key together with the cylinder.



2.18 Rear lid latch actuating handle (up from model-year 2011) - Assembly overview

- 1 - Attaching frame
 - ☐ Frame portions are pre-assembled
- 2 - Spring
- 3 - Screw
 - ☐ 4 Nm
- 4 - Handle with switch
 - ☐ For electric operation
 - ☐ Lined with a rubber cover
 - ☐ Remove and install ⇒ [page 55](#)

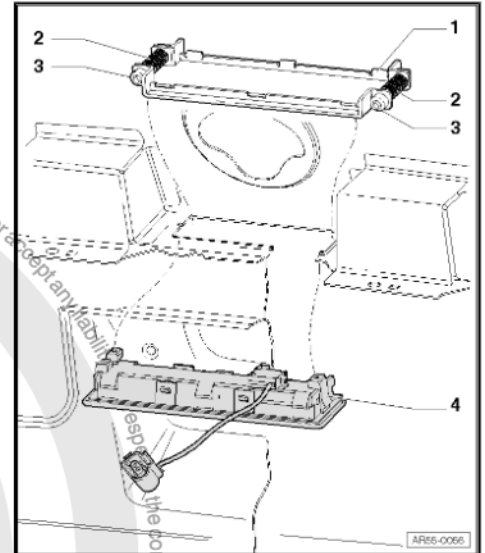




2.19 Rear lid latch actuating handle (up from model-year 2011) - Remove and install

2.19.1 Removal

- Remove the tailgate inner lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Disconnect the harness connector from the Unlocking switch in the tailgate handle -E234- on the handle case
- Untighten the screws -3- until (do not untighten completely) the attaching frame -1- can be removed.
- Remove the frame by holding the handle.
- Remove the rear lid handle.



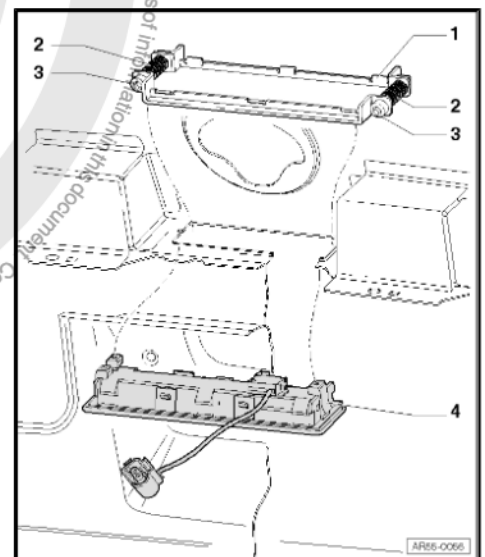
2.19.2 Installation

- Install and hold the handle in the rear lid (pay attention to the "tab" for locking).
- Pass the wiring harness through the attaching frame -1- and position the frame in the handle.
- Lock the handle with the attaching frame -1- and tighten the screws -3- with 4 Nm.
- Engage the wiring harness connector from the rear lid handle unlocking switch -E234- .



Note

In order to avoid operational failures in the electric actuation, it is indispensable to pay attention to the correct locking of the attaching frame -1-, as well as to check the tightening moment prescribed to the screws -3-.





3 ?Cover and ??fill nozzle compartment of the fuel tank set

3.1 Cover and ??fill nozzle compartment of the fuel tank set - remove and install

1 - Side panel

2 - Expansion nut

3 - Fill nozzle compartment of the fuel tank

- ❑ It can only be removed along with the fuel tank cover

⇒ [Item 4 \(page 56\)](#)

- ❑ Removal:

- Loosen the screw
⇒ [Item 5 \(page 56\)](#) .

- Remove the rubber part from the fill nozzle of the fuel tank and turn the fill nozzle compartment out of the side panel.

- ❑ Installation:

- Install the fill nozzle compartment with the fitted rubber part.

- Tighten the screw
⇒ [Item 5 \(page 56\)](#) .

4 - Fuel tank cover

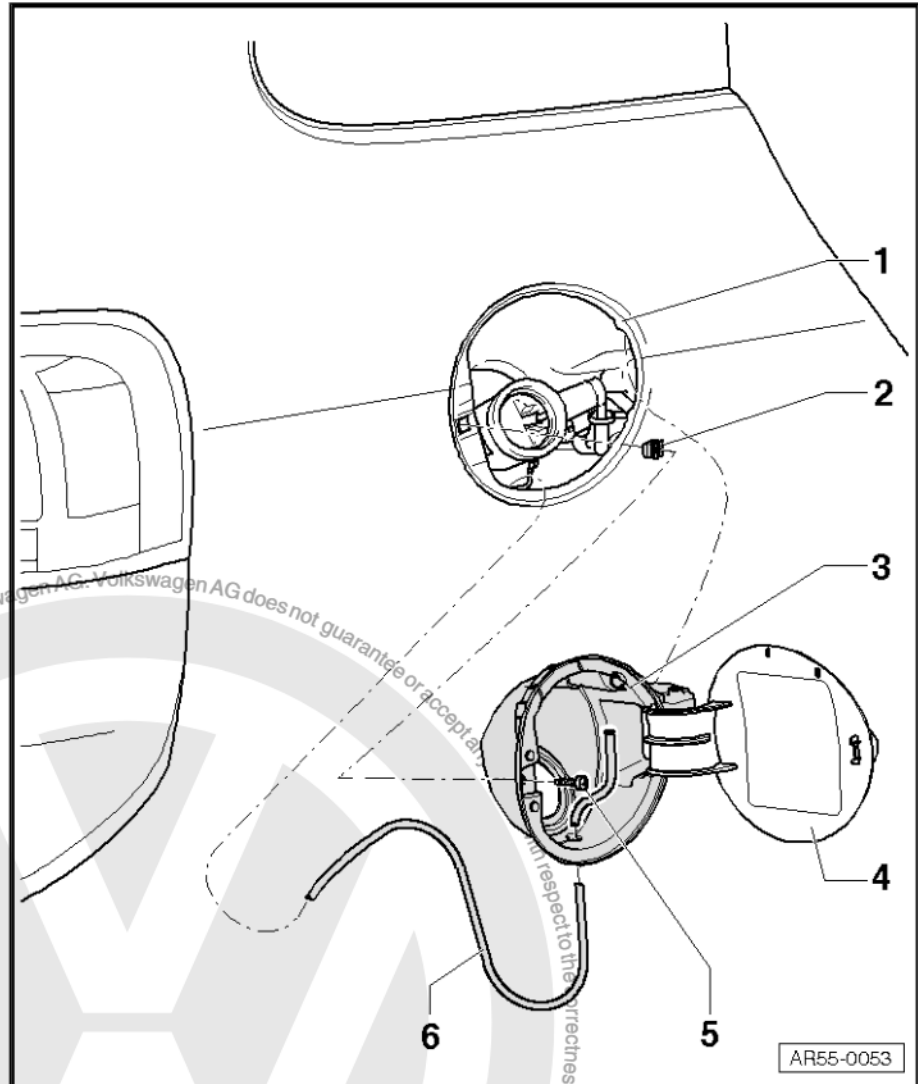
- ❑ It can only be removed along with the fill nozzle compartment

⇒ [Item 3 \(page 56\)](#)

- ❑ In order to remove the fuel tank cover, press its fixing pin

5 - Screw

6 - Drain hose





57 – Front doors/components/central locking

1 Front door

1.1 Front door (up to model-year 2010) - assembly overview



Note

- ◆ Door hinge screws shall always be renewed after being loosened.
- ◆ The dash panel must be removed to remove and adjust the upper door hinges.

1 - Screw with inner multitooth

- ☐ M8
- ☐ Installed from the inside of the vehicle
- ☐ To loosen or attach the sill screw ⇒ Body - internal mountings; Rep. Gr. 68 ; Internal equipment
- ☐ 20 Nm + 1/4 of turn (90°)
- ☐ The screws must always be replaced when removed

2 - Screw with inner multitooth

- ☐ M8
- ☐ 20 Nm + 1/4 of turn (90°)
- ☐ The screws must always be replaced when removed

3 - Door hinge

- ☐ In two parts

4 - Hinge pin

5 - Nut

- ☐ 14 Nm

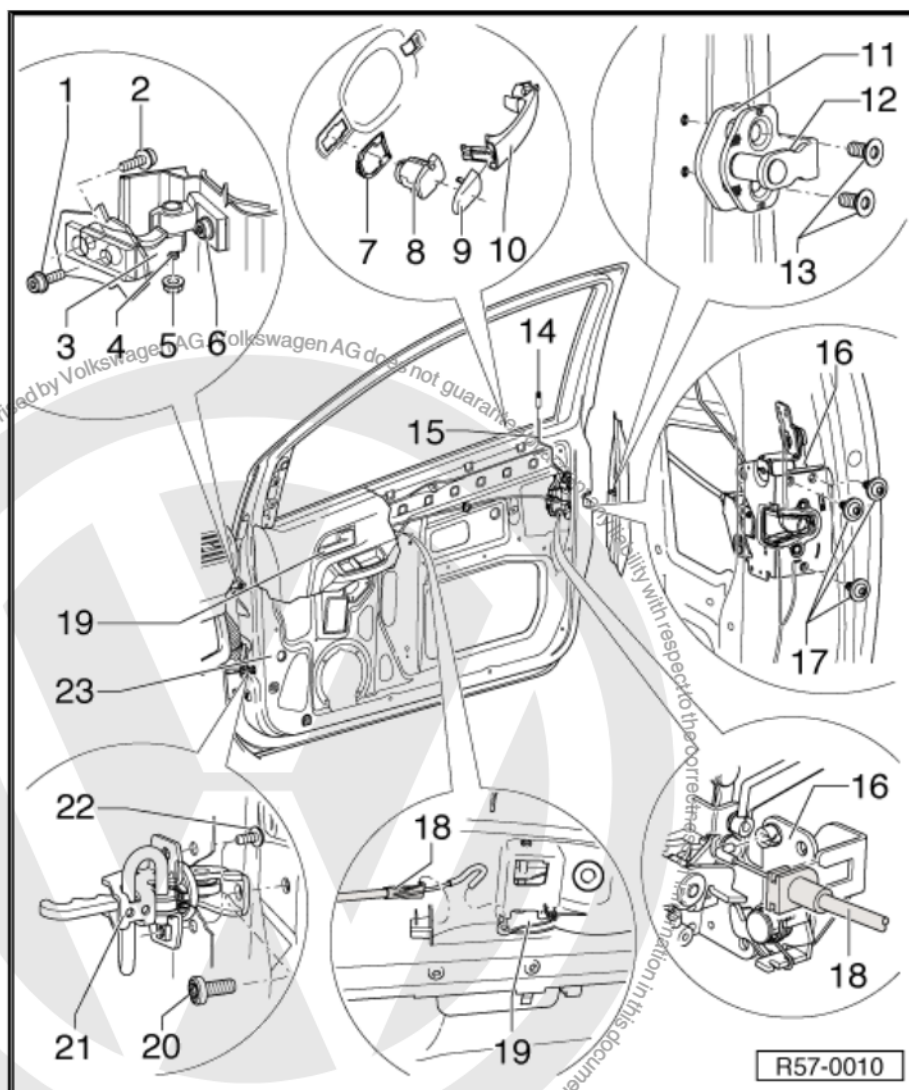
6 - Screw with inner multitooth

- ☐ M8
- ☐ 20 Nm + 1/4 of turn (90°)
- ☐ The screws must always be replaced when removed

7 - Bracket

8 - Lock cylinder housing or housing without lock cylinder

- ☐ Remove and install ⇒ [page 68](#)



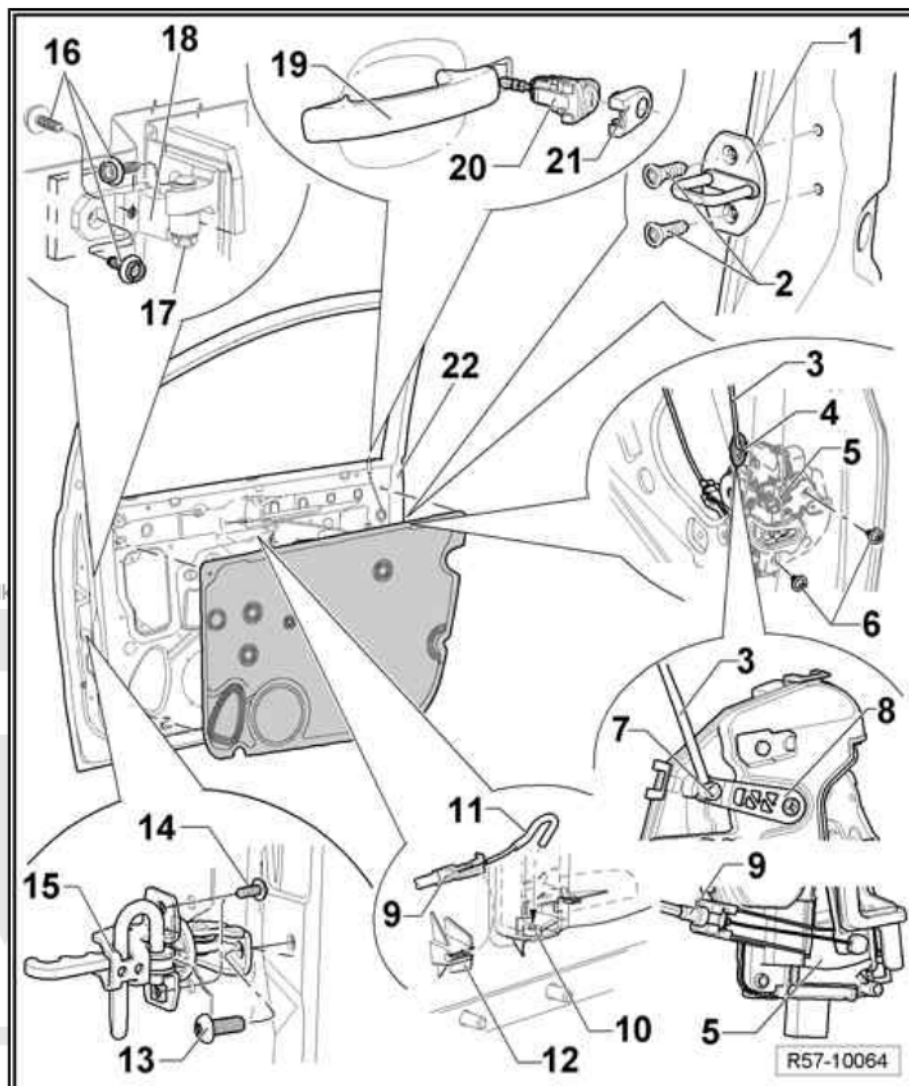


- 9 - Cover cap
- 10 - Door handle
 - ☐ Remove and install ⇒ [page 72](#)
- 11 - Bracket
- 12 - Latch plate
- 13 - Screw
 - ☐ 20 Nm
 - ☐ Powerlock
- 14 - Lock knob
 - ☐ Fixed on the lock rod
 - ☐ For Europe versions, the button under the condition -locked door- should be "0 to 2 mm" above the button frame.
 - ☐ For other versions, except Europe, under the condition -locked door-, the upper end of the button should be 19 mm above the door lining. Under the condition -unlocked door-, the upper end of the button should be 29 mm above the door lining
- 15 - Lock rod
- 16 - Door lock
 - ☐ Remove and install ⇒ [page 75](#)
 - ☐ Lubricate with multi-purpose grease ⇒ Chemical Materials Manual or -G 052 745 A2-
- 17 - Screw (M6 x 10)
 - ☐ 4 Nm
- 18 - Lock operating cable
- 19 - Door internal operating mechanism
- 20 - Screw
 - ☐ 25 Nm
- 21 - Door limiter
 - ☐ remove and install ⇒ [page 64](#)
- 22 - Screw
 - ☐ 10 Nm
- 23 - Door
 - ☐ Remove and install ⇒ [page 60](#)



1.2 Front door (up from model-year 2011) - assembly overview

- 1 - Door stop
 - ❑ Adjust ⇒ [page 64](#)
- 2 - Screw
 - ❑ 20 Nm
- 3 - Locking rod
 - ❑ Under the condition -locked door- the locking rod button should be "0 to 2 mm" above the button frame. Using puller and installer -VW 035-
- 4 - Eyelet
- 5 - Door lock
 - ❑ Remove and install ⇒ [page 79](#)
- 6 - Screw
 - ❑ 20 Nm
- 7 - Bushing
- 8 - Operating lever
- 9 - Lock operating cable
 - ❑ Replace ⇒ [page 84](#)
- 10 - Internal door handle
- 11 - Hook of the lock operating cable
- 12 - Cable support
 - ❑ in the door trim
- 13 - Screw
 - ❑ 25 Nm
- 14 - Screw
 - ❑ 10 Nm
- 15 - Door limiter
 - ❑ Remove and install ⇒ [page 64](#)
- 16 - Screw with inner multitooth
 - ❑ M8
 - ❑ 20 Nm + 1/4 of turn (90°)
 - ❑ The screws must always be replaced when removed
- 17 - Nut
 - ❑ 14 Nm
- 18 - Door hinge
 - ❑ In two parts
- 19 - Door outer handle
 - ❑ Remove and install ⇒ [page 73](#)
- 20 - Lock cylinder housing or housing without lock cylinder
 - ❑ Remove and install ⇒ [page 68](#)





21 - Cover cap

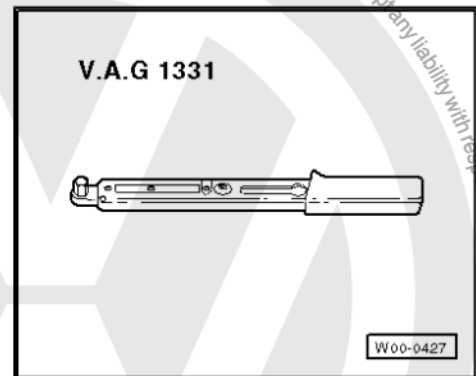
22 - Door

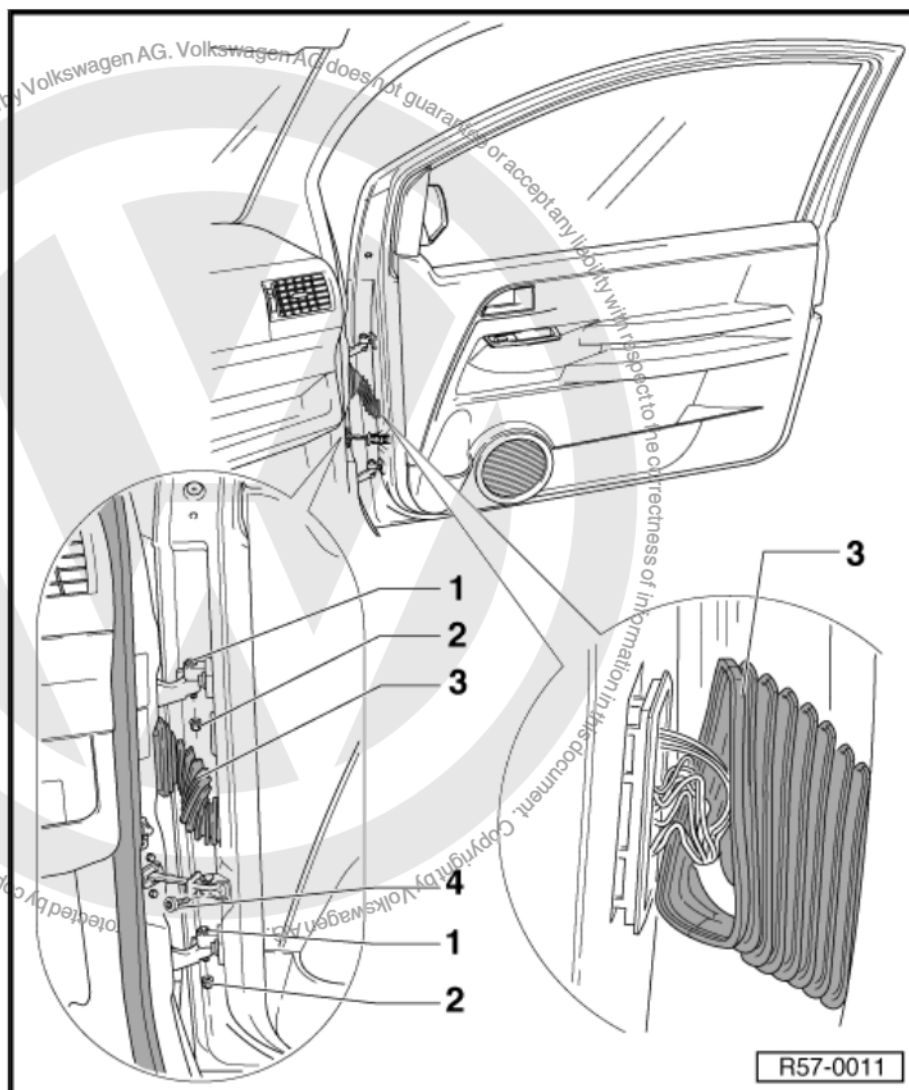
- ☐ Remove and install ⇒ [page 60](#)
- ☐ Adjust ⇒ [page 61](#)
- ☐ Disassemble and assemble ⇒ [page 63](#)
- ☐ Replace ⇒ [page 63](#)

1.3 Front door - remove and install

Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-





Removal

- Pull the protective boot -3- from pillar A and disconnect the electric connections of the connection station located on pillar A.
- Remove the nuts -2- from the hinge pins -1-.
- Remove the screw -4- from the door stopper.
- ?Disengage the door upwards and out of the hinge edges.

Installation

Installation happens in reverse order, ensure the following:

- Tighten nuts -2- of the hinge pins with 14 Nm.
- Tighten the screw -4- of the door stopper with 25 Nm.

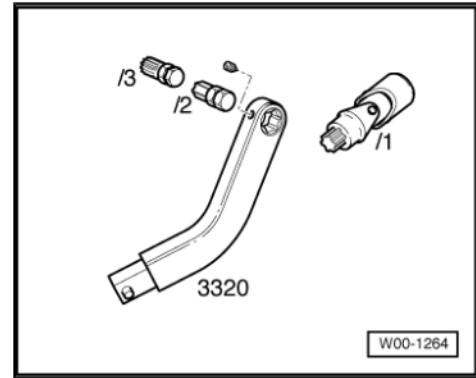
1.4 Front door - adjust

Special tools and workshop equipment required

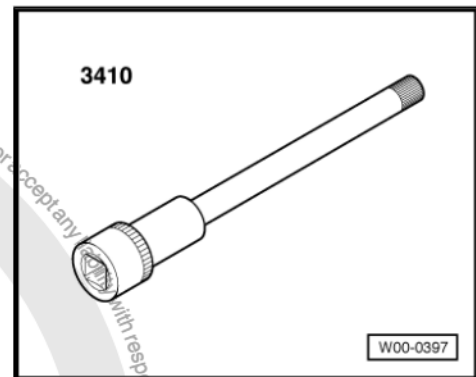
- ◆ Wrench -3320-



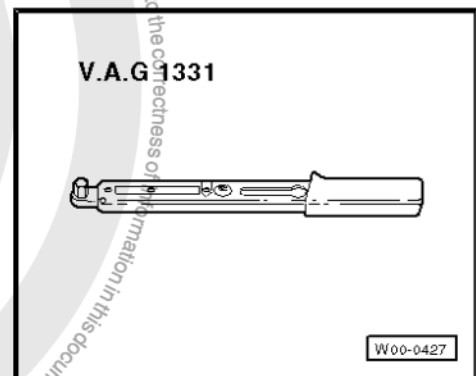
◆ Multitoothed bits -3320/3-



◆ Multitoothed socket -3410-



◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-



Note

- ◆ In order to adjust the front door correctly, the vehicle shall be supported on its wheels.
- ◆ The front door will be correctly adjusted when the clearances are according to the specification ⇒ Body Repairs; Rep. Gr. 00; Technical data - Body clearance measures when the door is closed.
- ◆ After reinstallation or adjustment, adopt protective measures against corrosion in the hinges and screws.

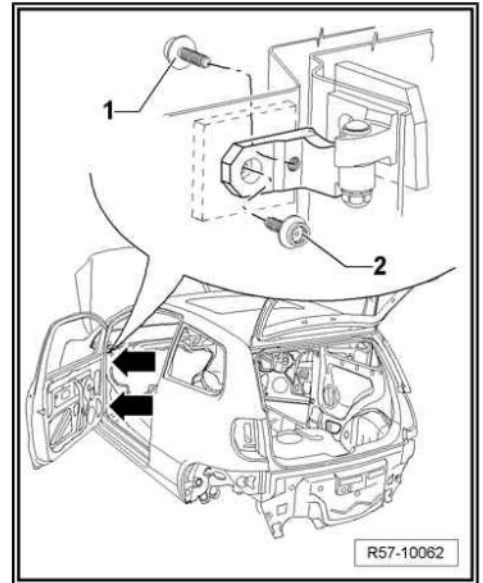


In order to get the clearance adjustment correctly, the screws -1- and -2- on pillar A should be loosened.

- For the screw -1-, in the door lower hinge, the lower member trim should be removed: ⇒ Body - internal mountings; Rep. Gr. 68 ; Internal equipment . Untighten the screw with the multitoothed socket -3410- .
- For the screw -1-, in the door upper hinge, the instrument panel should be removed: ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation Untighten the screw with the multitoothed socket -3410- .

For the screw -2-, untighten it with the screwdriver -3320- and multitoothed bits -3320/3- .

Adjust the door stop ⇒ [page 64](#) .



1.5 Front door - disassemble and assemble

1.5.1 Disassembly

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove the door sealing membrane ⇒ [page 84](#) .
- Remove the door window operation mechanism ⇒ [page 167](#)
- Remove the door window glass ⇒ [page 163](#)
- Remove the outer rearview mirror ⇒ [page 197](#) .
- Remove the inner and ⇒ [page 171](#) outer weatherstrip ⇒ [page 172](#) from the door window glass.
- Remove the door glass groove ⇒ [page 171](#) .
- Remove glass guide rail.
- Remove the outer handle ⇒ [page 65](#) .
- Remove the lock ⇒ [page 75](#) .
- Remove the door limiter ⇒ [page 64](#) .
- Disconnect the protection gaiter and remove the door interior harness.

1.5.2 Assembly

- Install in reverse order.

1.6 Front door - replace

1.6.1 Removal

- Disassemble the door ⇒ [page 63](#) .
- Remove the door ⇒ [page 60](#) .

1.6.2 Installation

- Apply seal / insulation to the door ⇒ Chemical Materials Manual. .



- Install the door noise insulation ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Paint the door ⇒ Painting Manual .
- Install the door ⇒ [page 60](#) .
- Apply anti-corrosion fluid ⇒ Painting Manual .
- Assemble the door ⇒ [page 63](#) .

1.7 Door stopper - adjust

Special tools and workshop equipment required

- ♦ "Torque wrench - 5 to 50 Nm (socket 1/2")" -VAG 1331-

V.A.G 1331



W00-0427

1.7.1 Adjusting

- Loosen the stopper attaching screws.
- Temporarily fit the stopper and position the screws .
- Close the door and check the body for the correct alignment.
Check the clearance values specified⇒ Body Repairs; Rep. Gr. 00 ; Technical data - Body clearance measures .
- Tighten the stopper definitively with:
 - 20 Nm (T45)
 - Models up from model-year 2011: 20 Nm (multitoothed)

1.8 Door limiter - remove and install

Special tools and workshop equipment required

- ♦ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

V.A.G 1331



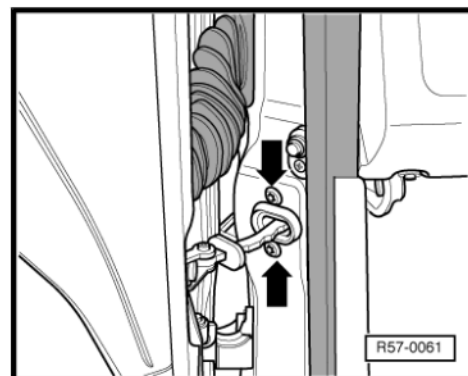
W00-0427

1.8.1 Removal

- Remove front door-sill trim ⇒ Body - internal mountings; Rep. Gr. 68 ; Internal equipment .
- Remove the fixing screw of the door limiter (T-40).



- Remove screws -arrows- that attach the pillar A limiter (T-30).
- Remove the limiter.



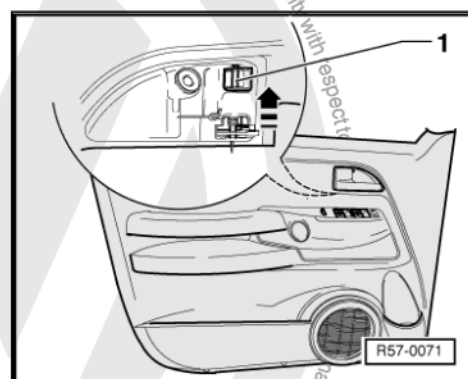
1.8.2 Install

- Install in reverse order as of the removal.

1.9 Inner handle (up to model-year 2010) - replace

1.9.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Disconnect the interior handle operation cable.
- Move the joint pins -1- from the handle in the direction of the arrow until stopping, at the door lining.
- Open internal handle, detach spring and pull it out of door trim.



1.9.2 Installation

- Install in reverse order as of the removal.

1.10 Front door lock outer handle (up to model-year 2010) - assembly overview



1 - Cover

2 - Door lock

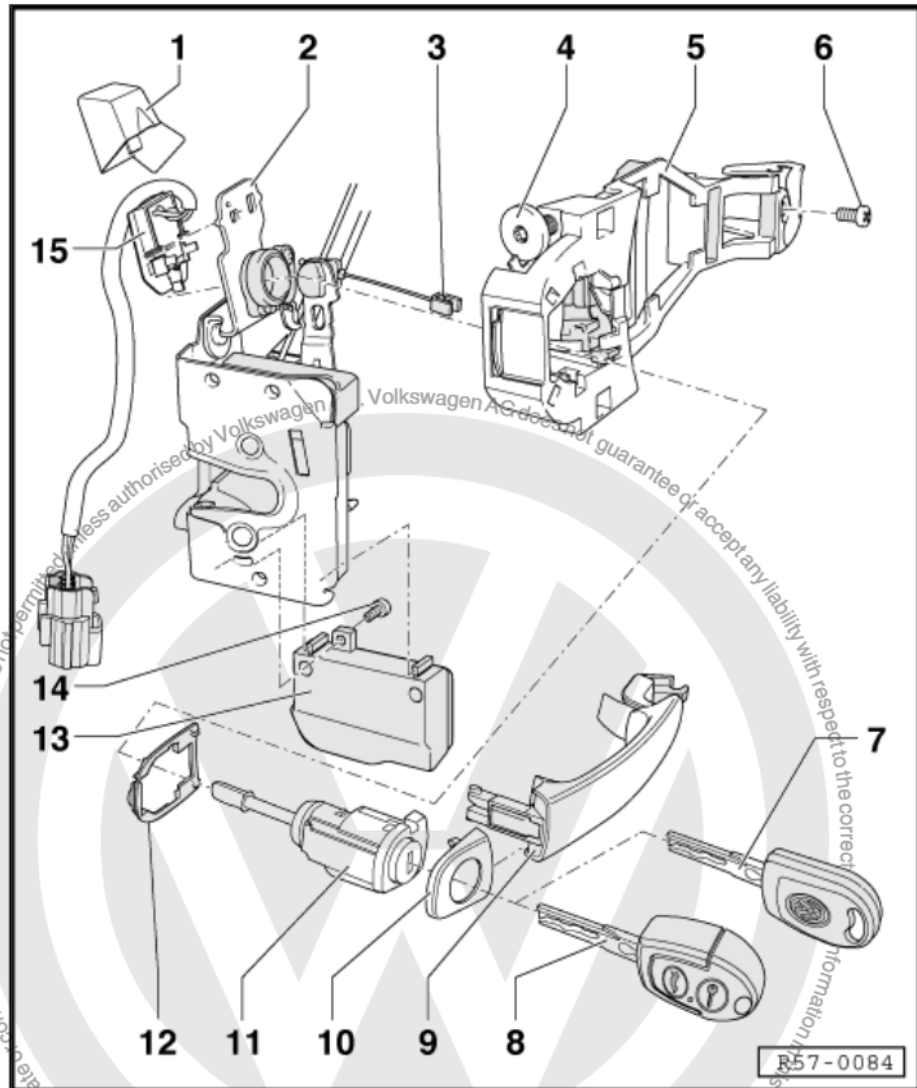
- ☐ Remove and install
⇒ [page 75](#)

3 - ?Operation cable

- ☐ Lock release.

4 - Torx screw

- ☐ Loosen with the torque wrench -T10072- .
- ☐ When loosening the screw, the lock cylinder case attachment is unlocked
⇒ [Item 11 \(page 66\)](#) ,
and may be pressed outwards the outer handle support
⇒ [Item 5 \(page 66\)](#) .
- ☐ The screw
⇒ [Item 4 \(page 66\)](#) cannot be tightened without the lock cylinder case being inserted. Locking ring may fall off into the door.
- ☐ .



-Handle support in Zamak, 4.5 Nm-

- ☐ .-Handle support in PA6 30 GF, 2.5 Nm-

5 - Outer handle support

- ☐ Remove lock cylinder housing ⇒ [page 68](#) .
- ☐ Remove door handle ⇒ [page 72](#) .
- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- ☐ Remove the sealing membrane on the door handle area.
- ☐ Loosen the screw ⇒ [Item 6 \(page 66\)](#) , push the outer handle support backwards slightly and remove it from the door.

6 - Screw

7 - Wrench

8 - Key with remote control

- ☐ Replacement of the battery ⇒ [page 96](#)
- ☐ Codify the remote control of the new key or spare key ⇒ [page 100](#)

9 - Door handle

- ☐ Remove and install ⇒ [page 72](#)

10 - Cover cap

11 - Lock case with or without lock cylinder

- ☐ Remove and install ⇒ [page 68](#)



- ☐ Fitted to door lock and attached with a screw.

12 - Bracket

13 - Central door locking motor for driver door/passenger door -V56/V57-

- ☐ To central door locking
- ☐ Fitted to the door lock ⇒ [Item 2 \(page 66\)](#) and attached through screw.

14 - Screw

15 - Switch on the outer handle of driver door for the alarm system -F121-

1.11 Front door outer handle and lock (up from model-year 2011) - assembly overview

1 - Outer handle support

- ☐ Remove lock cylinder housing ⇒ [page 68](#) .
- ☐ Remove door handle ⇒ [page 73](#) .
- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- ☐ Remove the sealing membrane on the door handle area.
- ☐ Loosen the screw, push the outer handle support backwards slightly and remove it from the door.

2 - Screw

3 - Torx screw

- ☐ Loosen with the Torque wrench -T10072- .
- ☐ When the screw is loosened, the lock cylinder case attachment is unlocked too, and may be pulled outwards the outer handle support.
- ☐ The screw cannot be tightened without the lock cylinder body being inserted. Locking ring may fall off into the door.

4 - Door handle

- ☐ Remove and install ⇒ [page 73](#)

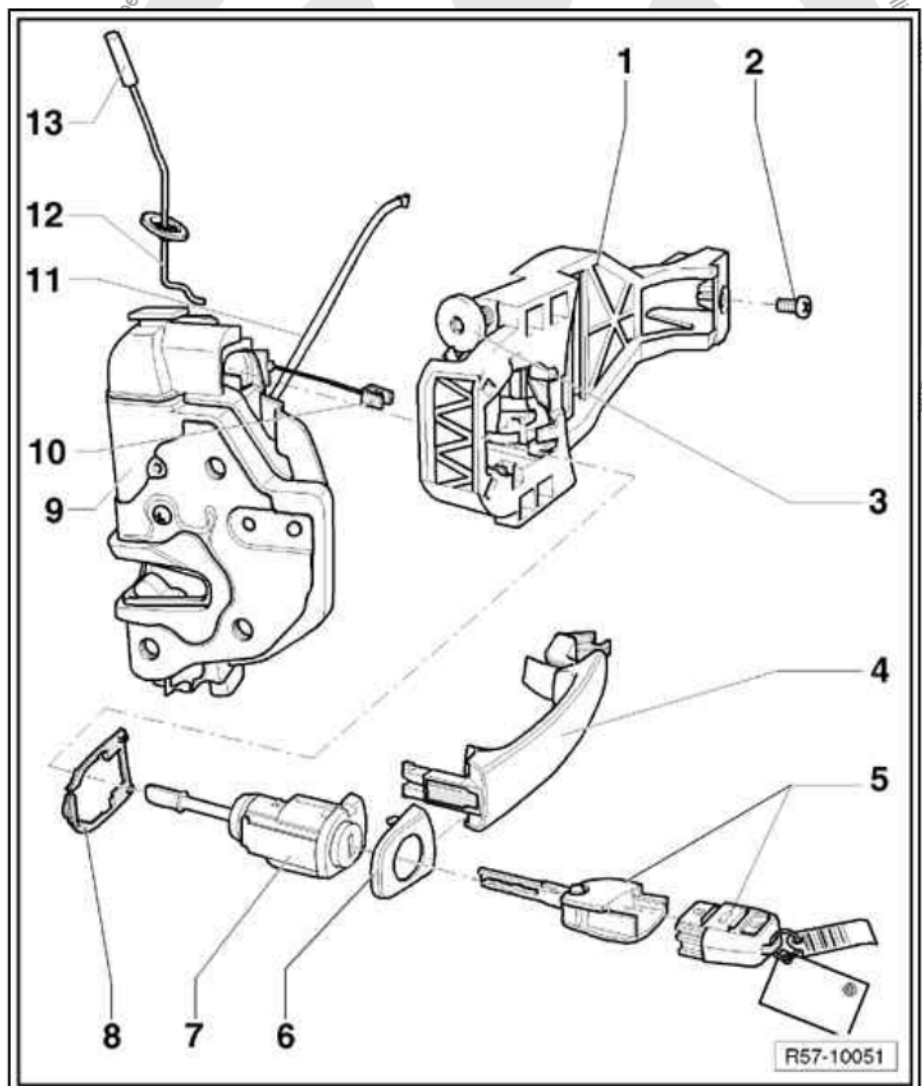
5 - Key with remote control

- ☐ Replacement of the battery ⇒ [page 99](#)
- ☐ Fitting of keys equipped with remote control or additional keys ⇒ [page 100](#)

6 - Cover

7 - Lock case with or without lock cylinder

- ☐ Remove and install ⇒ [page 68](#)
- ☐ fitted to door lock and attached with a screw.





8 - Sealing

9 - Door lock

- ☐ Remove and install ➔ [page 79](#)
- ☐ The Central door locking motor for driver door/passenger door -V56/V57- is integrated to the lock assembly.

10 - ?Operation cable

- ☐ Lock release.

11 - Lock operating cable

- ☐ Remove and install ➔ [page 84](#)

12 - Locking rod

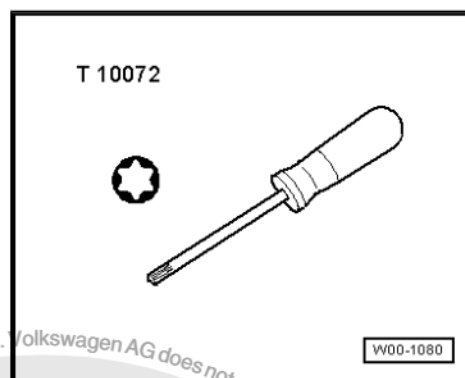
13 - Locking button

- ☐ Fixed on the lock rod
- ☐ Remove and install ➔ [page 81](#)

1.12 Lock cylinder housing - remove and install

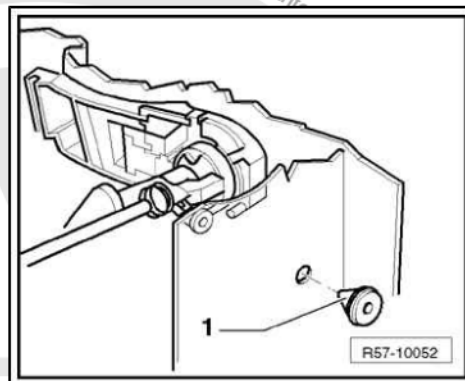
Special tools and workshop equipment required

- ◆ Torque wrench -T10072-



1.12.1 Removal

- Disengage the plug -1-.





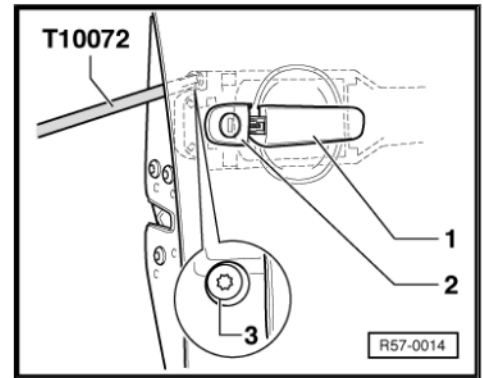
- Pull and hold the door handle -1-. Loosen the screw -3- with Torque wrench -T10072- and press it simultaneously in the direction of the outer handle. This releases the locking in the lock cylinder housing.



Note

If screw is excessively loosened the lock ring may detach from the outer handle support as a result, and fall off into the door.

- Pull the lock cylinder housing -2- outwards the outer handle support, at right angle concerning the door handle.



1.12.2 Installation

Installation happens in reverse order, ensure the following:

- Install the lock cylinder housing to the outer handle support at right angle.
- Tighten the screw at the outer handle support with the torque wrench -T10072-.

Door handle is again fitted to lock cylinder housing when there is an audible click.



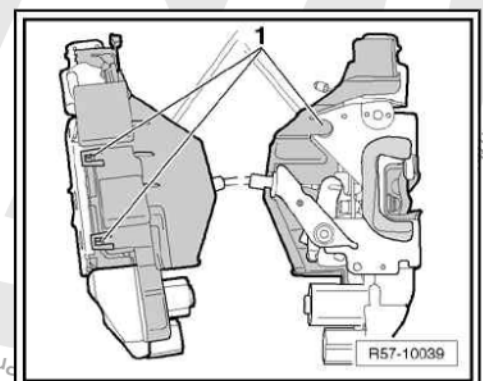
Note

When assembling, press the door handle and lock cylinder housing towards the door plate.

1.13 Central door locking motor for driver door/passenger door -V56/V57- (up to model-year 2010) - replace

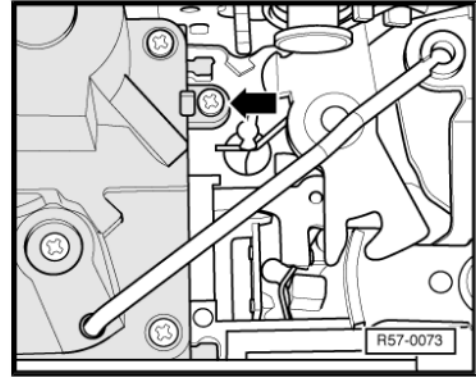
1.13.1 Removal

- Remove the door lock ⇒ [page 81](#).





- Unslot the locks -1- and separate the lock cover cap.
- Remove the screw -arrow- which attaches the motor.
- Release the motor actuating rod and remove it.



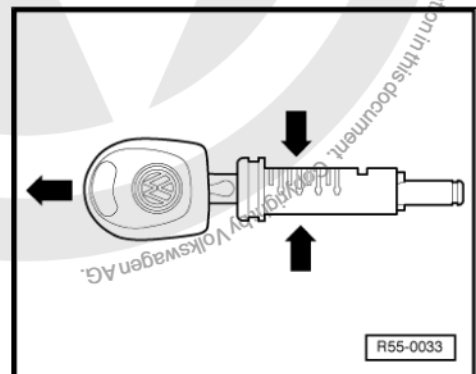
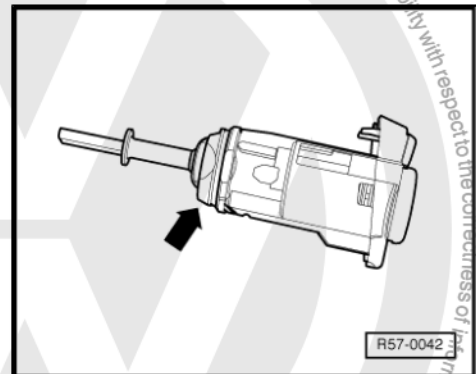
1.13.2 Installation

- Install in reverse order as of the removal.

1.14 Cylinder housing - disassemble and assemble

1.14.1 Disassembly

- Remove the lock cylinder housing ⇒ [page 66](#).
 - Insert the key into the cylinder.
 - Press the key towards the cylinder.
 - Remove the lock and release the actuating lever -arrow-.
 - Remove the rings, spring and cylinder guide.
 - Remove from body the cylinder along with key.
 - Clean the cylinder and remove all dirt and grease.
-
- Manually press the gorges into cylinder and then carefully remove key.
 - Slowly loosen the cylinder and release the gorge spring pressure.



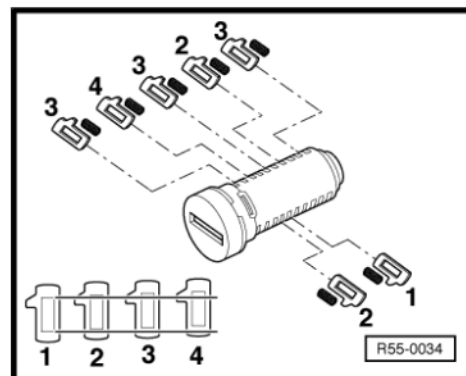


- Remove the gorges and springs and mark their positions in relation to the cylinder.



Note

Gorges are identified by numbers from 1 to 4 (identification by colors is also possible), take notes on the sequence, in the example 2 3 1 4 3 2 3 or 2 1 on the lower part and 3 4 3 2 3 on the upper part.



1.14.2 Assembly

- Fit springs and gorges in correct position (sequence).



Note

During this operation, lubricate the gorges and cylinder with multi-purpose grease ⇒ Chemical Materials Manual or -G 052 745 A3-.

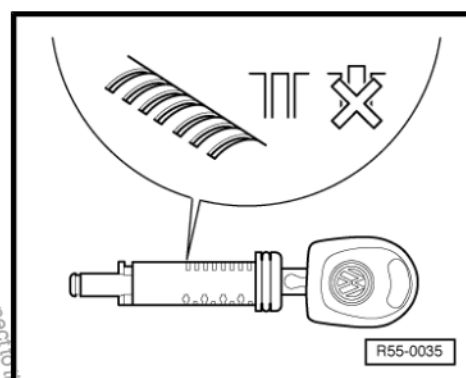
- When assembling, it is possible to combine gorges based on the vehicle key, in case the cylinder is replaced. To do so follow this procedure:
- By beginning with the last position of the gorge on the cylinder, install the spring and gorge number 1. Insert the key and observe the position of the gorge in relation to the cylinder.
- If the upper portion of gorge is aligned to the cylinder body -arrow-, it means that the number 1 is correct for this position. Otherwise, install gorge number 2 and so on until finding one gorge that aligns with the cylinder when key is inserted.



Note

Repeat the operation for all other remaining positions of gorges on the cylinder. Mark position (sequence) of gorges in relation to cylinder.

- Install the cylinder guide on the housing.
- Insert the cylinder into the guide.
- Position spring and rings.
- Install the control lever.
- Install the lock.
- Install the lock cylinder to the handle ⇒ [page 70](#).
- Install the outer handle ⇒ [page 72](#).



1.15 Cylinders and keys (information specific to Brazil) - request

The key may be requested to the parts department with the original mechanical key code. To do so, follow the instructions in the Parts Memo number 156 from June 2004.

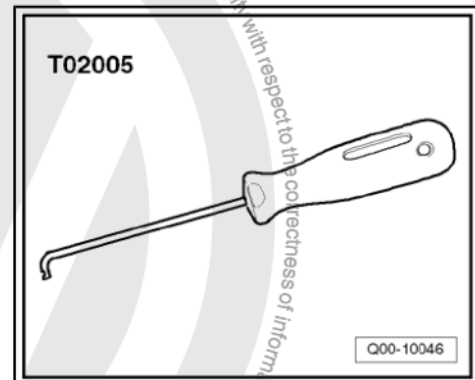
Complete cylinders may be requested by fax (0XX11) 4347-3652 with all the information about the vehicle (chassis number, original mechanical code of the key, etc.)



1.16 Door outer handle (up to model-year 2010) - remove and install

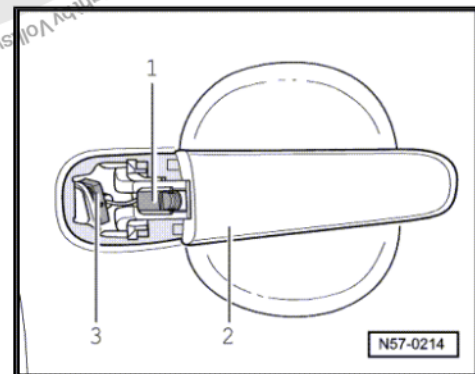
Special tools and workshop equipment required

- ◆ Assembly tool -T 10389- or Assembly tool -T 02005-



1.16.1 Removal

- Remove the door lining -1- Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Unglue door sealing membrane at the upper portion.
- Remove lock cylinder housing => [page 68](#) .
- Disengage the clip -1- from the door handle -2-.
- Disengage the door handle -2- from the door panel.



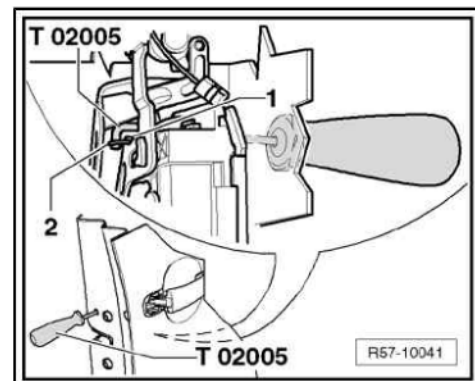
1.16.2 Installation



Note

Before beginning the installation, the spring -2- should be positioned in order the handle does not have a clearance when actuated. For this, follow the instructions below.

- Remove the lock attaching screw (upper screw, lining side) where there will be done the insertion of the Assembly tool -T 10389- or Assembly tool -T 02005-
- Insert the Assembly tool -T 10389- or Assembly tool -T 02005- to the lock attaching hole.
- In order to view it better, illuminate the door inner portion with a drop light.





- Fit the spring -2- to the actuating lever -1-.
- Fit the door handle -2- to the door panel.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle.



Note

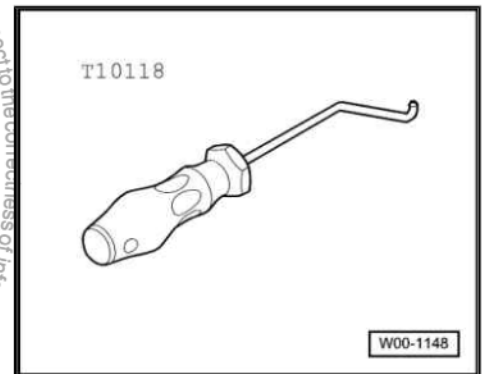
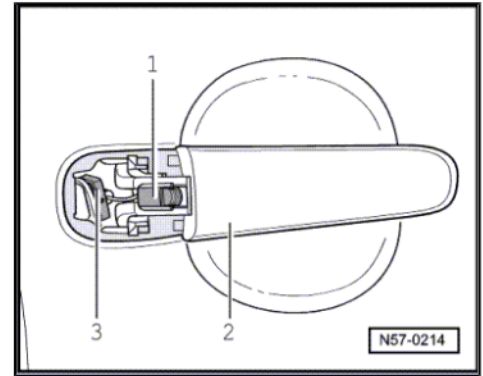
During the clip assembly, the latch actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.

- Install the lock cylinder housing ⇒ [page 68](#) .

1.17 Door outer handle (up from model-year 2011) - remove and install

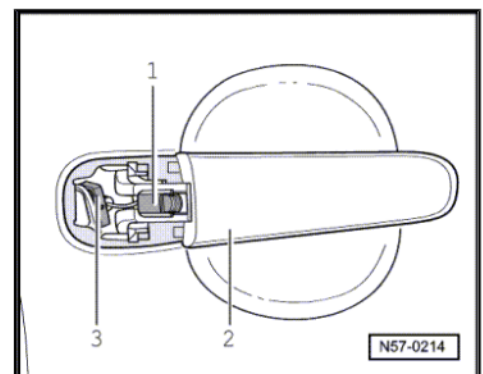
Special tools and workshop equipment required

- ◆ Hook -T10118-

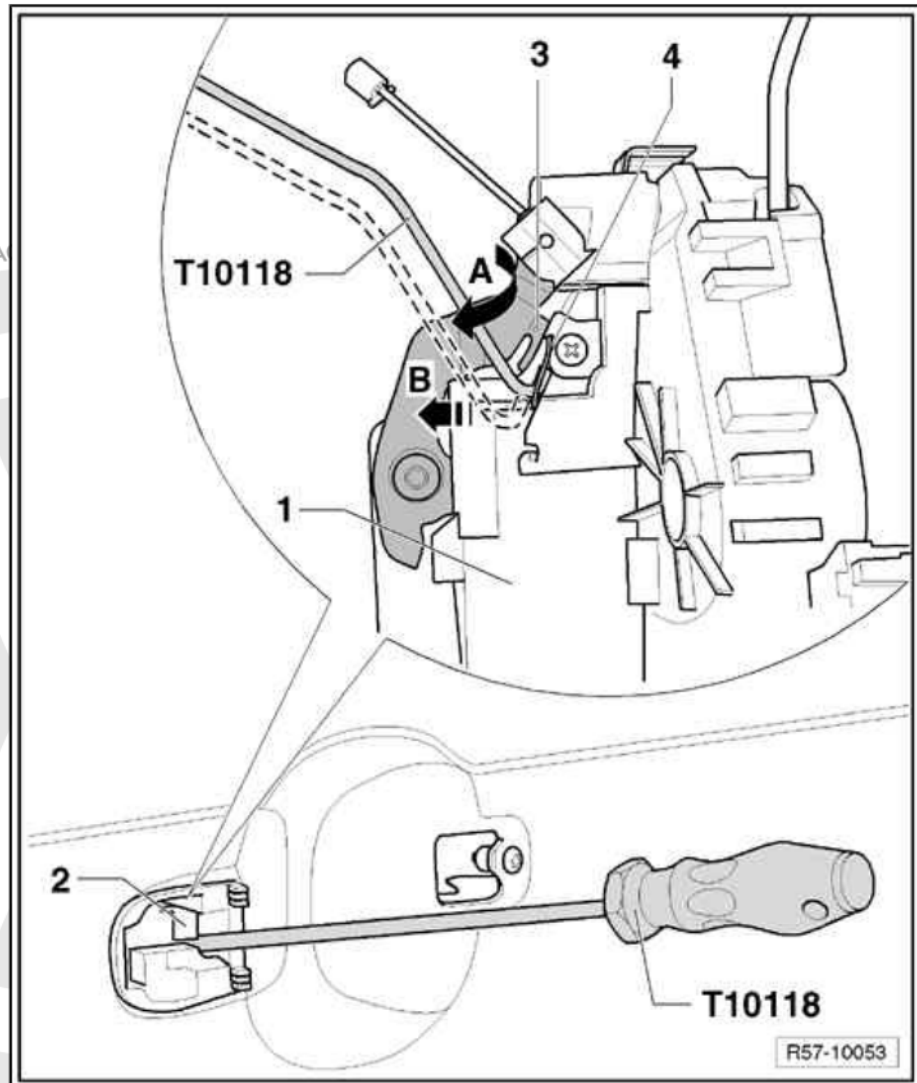


1.17.1 Removal

- Remove lock cylinder housing ⇒ [page 68](#) .
- Disengage the clip -1- from the door handle -2-.
- Disengage the door handle -2- from the door panel.



1.17.2 Installation

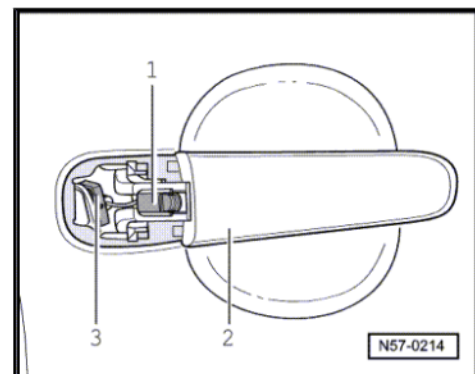


- Through the door panel opening -1-, Insert the Hook -T 10118- to the door.
- In order to view it better, illuminate the door inner portion with a drop light.
- Turn the Hook -T 10118- in the spring -4- -arrow A-.
- Slowly pull the Hook -T 10118- in the direction of -arrow B-, attach the spring to the lever -3- fitted to door lock -1-.
- Fit the door handle -2- to the door panel.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle.



Note

During the clip assembly, the latch actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.



- Install the lock cylinder housing ➡ [page 68](#) .



1.18 Exterior door handle - replace

1.18.1 Removal

- Remove the outer handle ⇒ [page 72](#) .

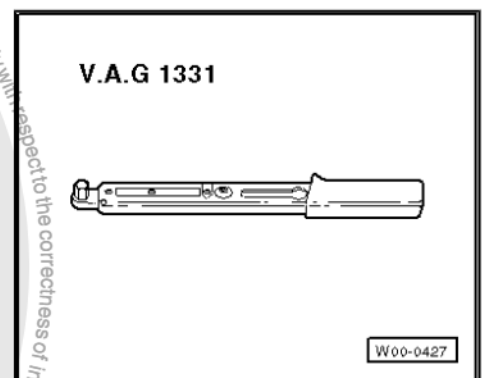
1.18.2 Installation

- Paint the handle ⇒ Painting Manual. .
- Install in reverse order as of the removal.

1.19 Lock cylinder (up to model-year 2010) - remove and install

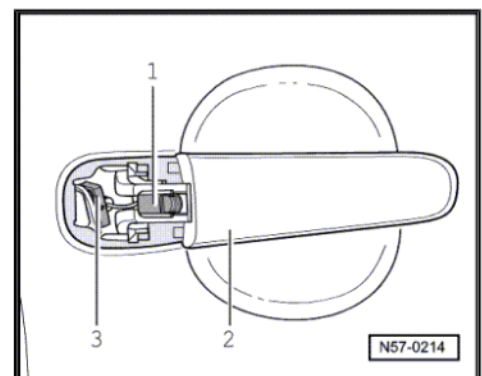
Special tools and workshop equipment required

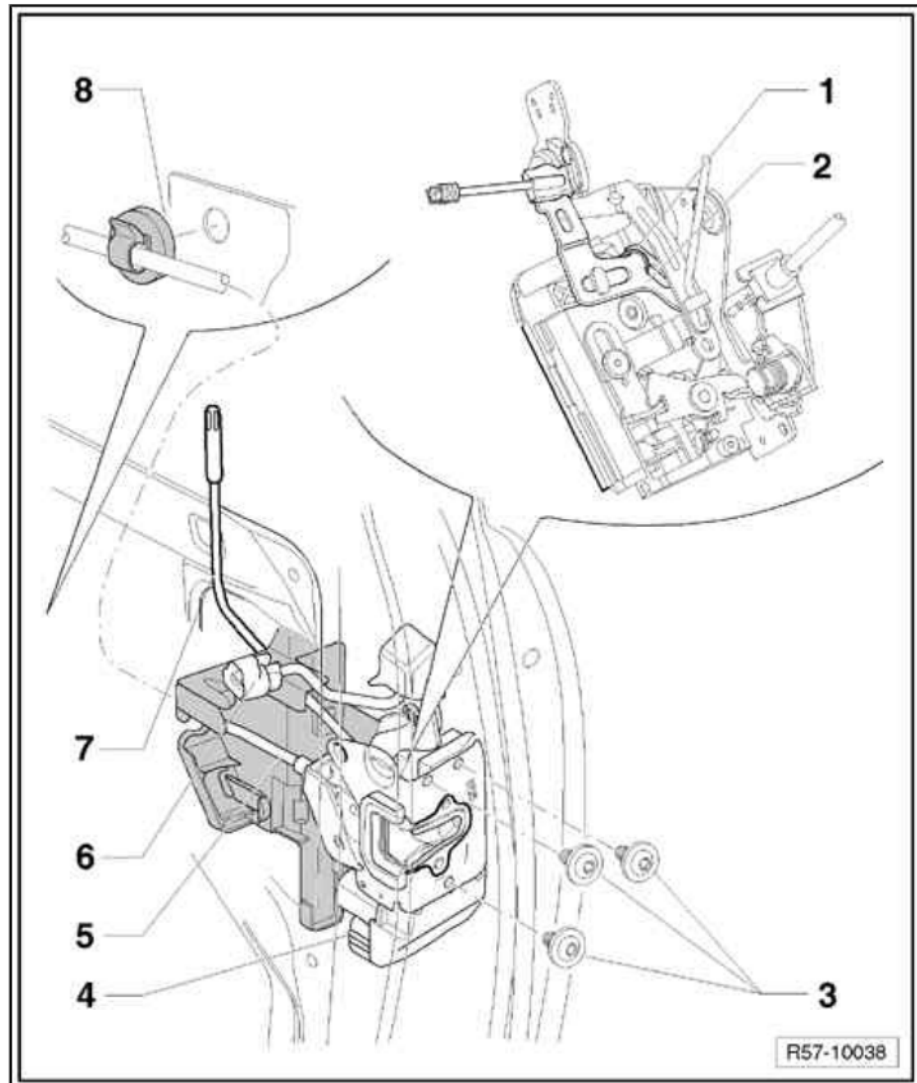
- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-



1.19.1 Removal

- Remove the front door lining with the window glass lifted, ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Unglue the door sealing membrane at the upper portion.
- Remove lock cylinder housing ⇒ [page 68](#) .
- Disengage the clip -1- from the door handle -2-

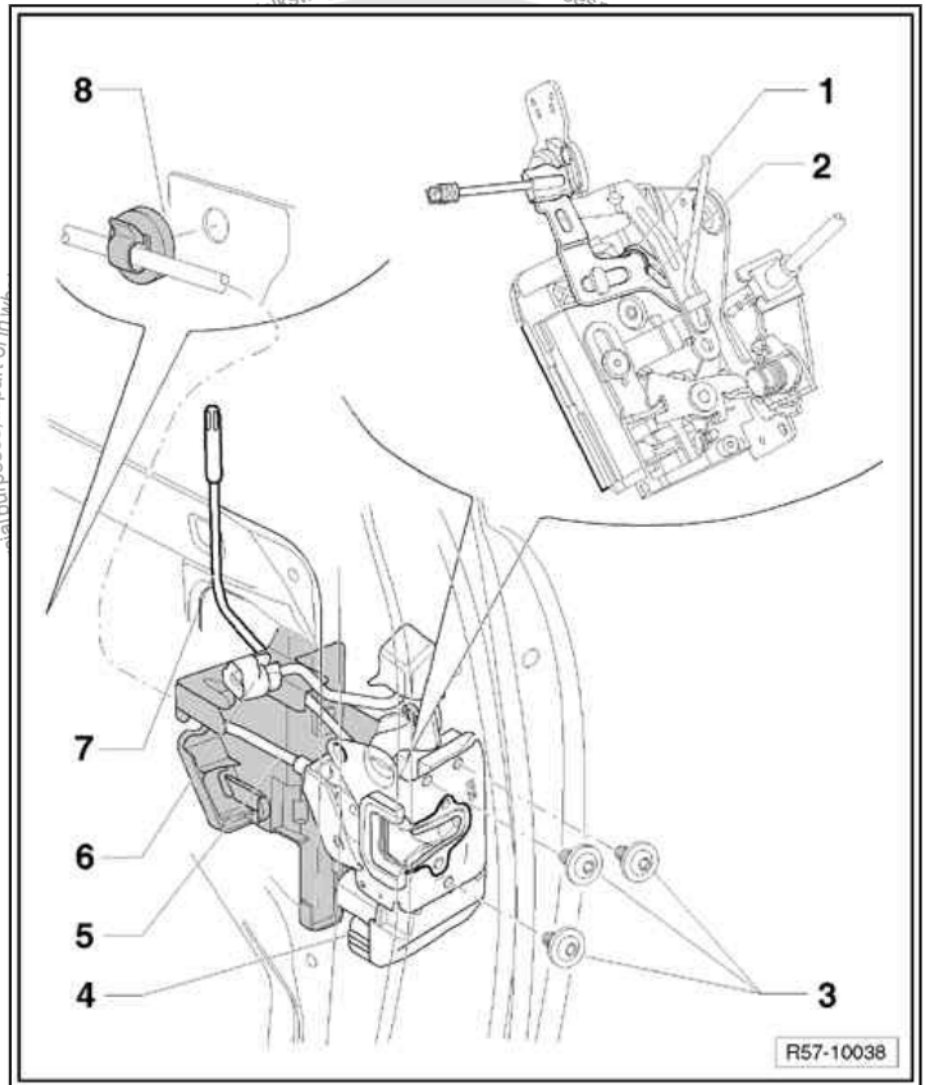




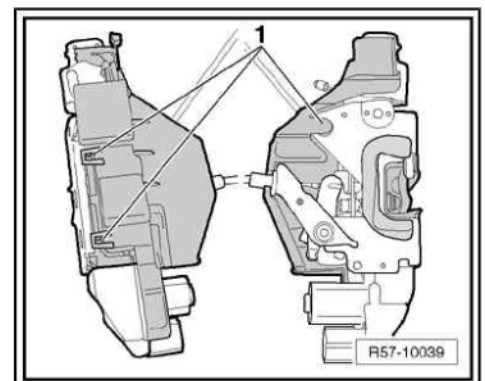
- Disengage the clip -8-(exclusive LAM market) the lock actuating cable-5-.
- Disconnect the connector of the Central door locking motor for driver door/passenger door -V56/V57- -4-.
- Disconnect the wiring harness connector from the alarm system -6-.
- Remove the attaching screws -3- from the door lock and remove the lock through the assembly opening.

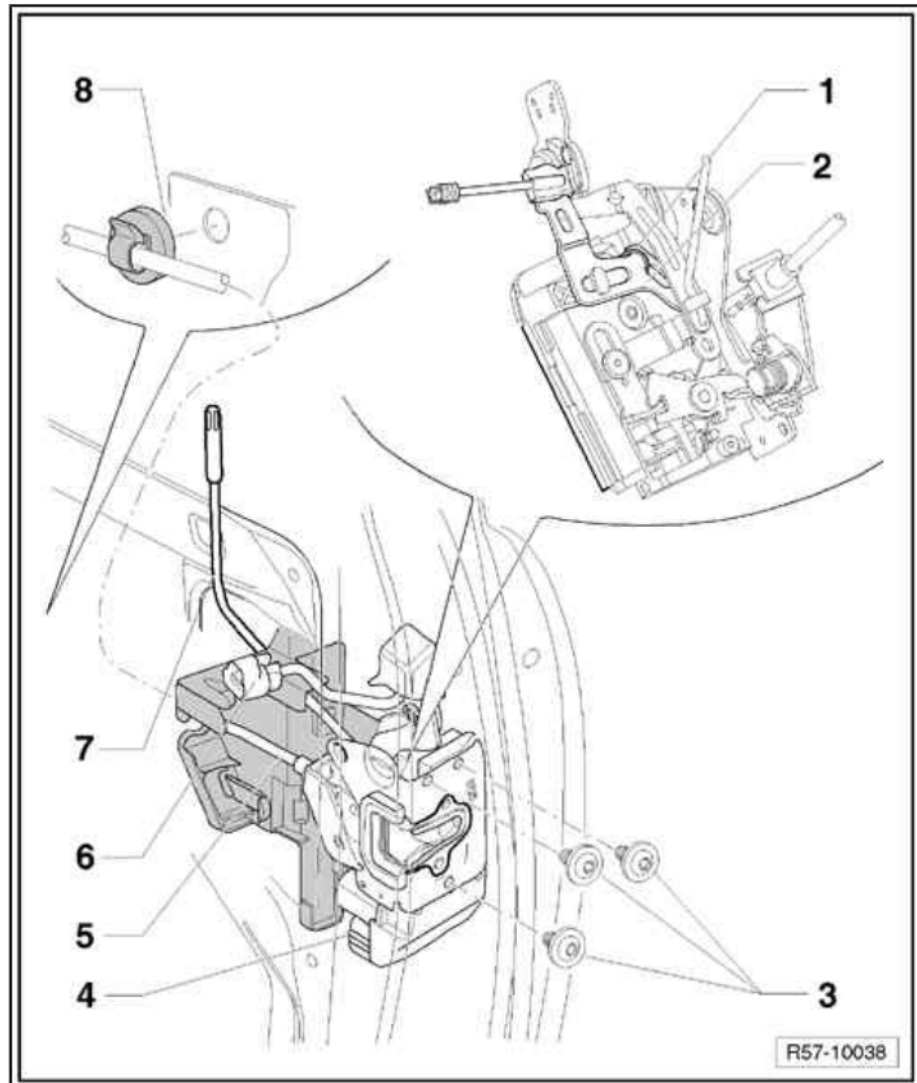
1.19.2 Installation

- Install the lock actuating cable -5-.
- Fit the actuating rod -7- of the lock.



- Fit the spring -1- to the lock actuating lever -2-.
- Fit the locks -1- and attach the lock cover cap.





- Position the lock and install the attaching screws -3- of the door lock with a final tightening of 4 Nm.
- Engage the connector Central door locking motor for driver door/passenger door -V56/V57- -4-.
- Connect the wiring harness connector from the alarm system -6-.

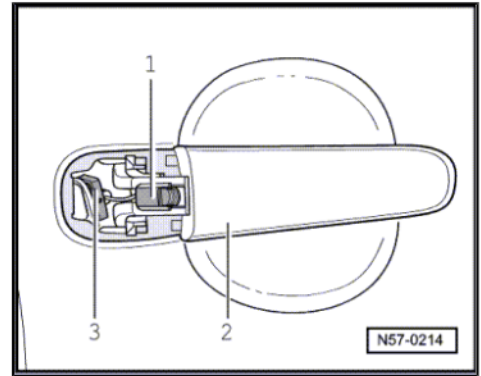


- Install to the clip -8- (exclusive Latin American market) the lock actuating cable-5-.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle. -2-.



Note

During the clip assembly, the lock actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.

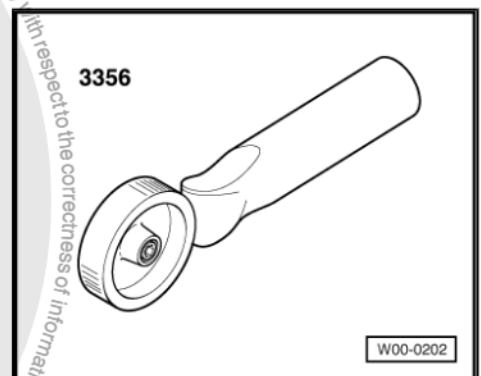


- Install the lock cylinder housing ⇒ [page 68](#) .
- Install the door sealing membrane, pressing it with the Press tool -3356- .
- Install the front door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining/ Insulation .

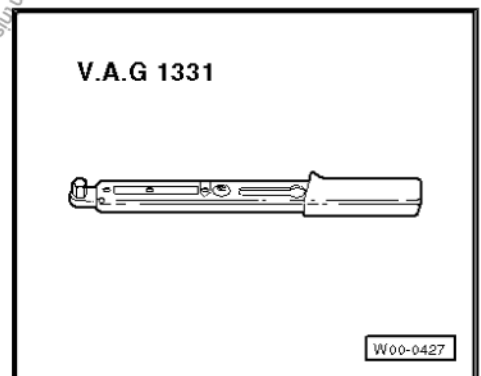
1.20 Door lock (up from model-year 2011) - remove and install

Special tools and workshop equipment required

- ◆ Press tool -3356-



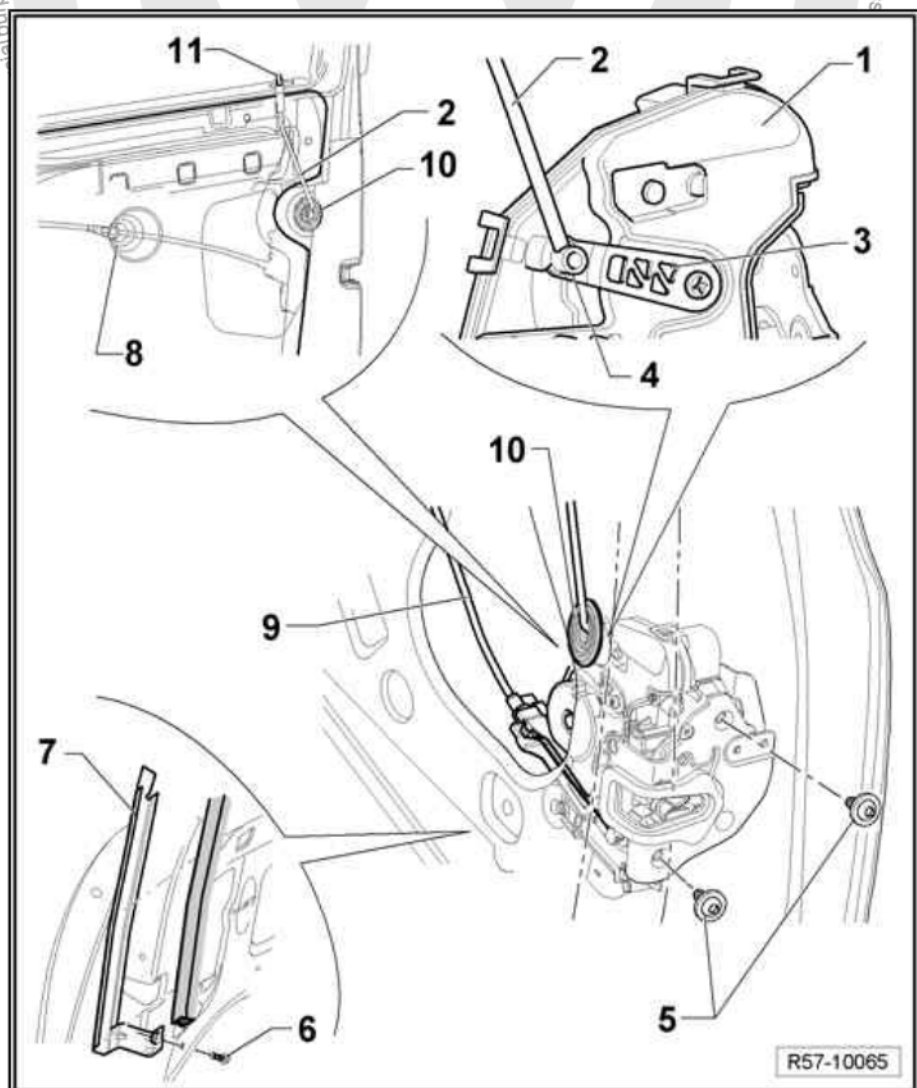
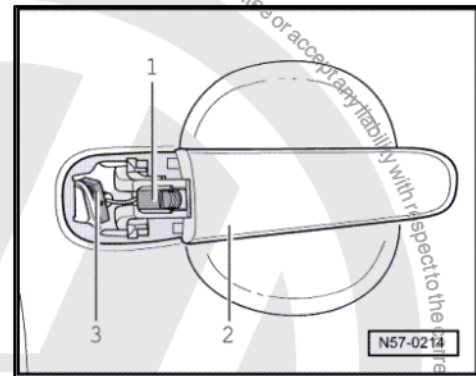
- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-





1.20.1 Removal

- Remove lock cylinder housing ⇒ [page 68](#).
- Disengage the clip -1- from the door handle -2-.
- Remove the front door lining with the window glass lifted, ⇒
Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .



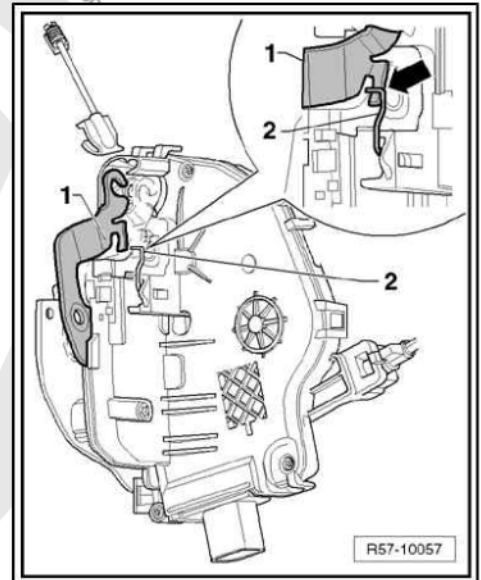
- Disengage the eyelet -10- from the door inner panel and disengage the rod -2- of the bushing -4- at the lever -3-.
- Unglue the adhesive tapes -8 - that attach the sealing membrane to the lock actuating cable -9-.
- Unglue door sealing membrane for access to the lock.



- Remove the screw -6- (8 Nm) and unglue the guide rail -7- for removal of the lock.
- Disconnect the connector of the Central door locking motor for driver door/passenger door -V56/V57- at the lock.
- Remove the attaching screws -5- (20 Nm) of the door lock -1- and remove the lock through the assembly opening.

1.20.2 Installation

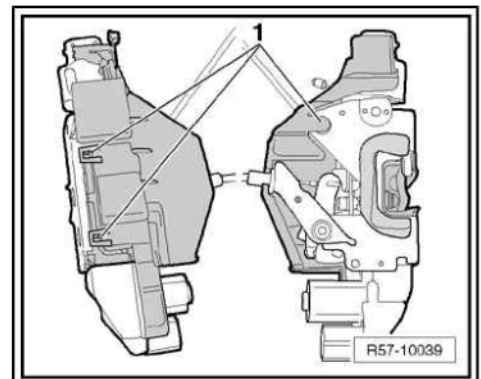
- Position the spring -2- under the door actuating lever -1-, with the needle nose pliers.
- Install in reverse order as of the removal.



1.21 Door lock (up to model-year 2010) - replace

1.21.1 Removal

- Remove the lock ⇒ [page 75](#) .
- Unslot the locks -1- and separate the lock cover cap.
- Disengage and remove the locking rod from the door lock.
- Remove the lock actuating cable ⇒ [page 82](#) .
- Remove the Central door locking motor for driver door/passenger door -V56/V57- , if any.
- Remove the Switch on the outer handle of driver door for the alarm system -F121- , if any.



1.21.2 Installation

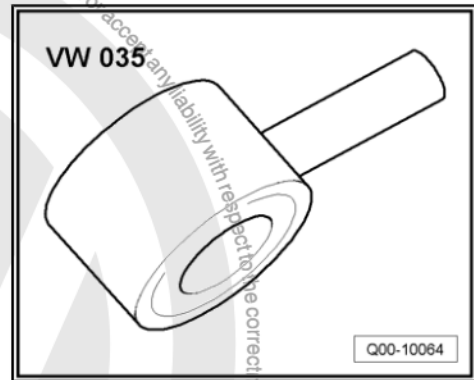
- Install in reverse order as of the removal.

1.22 Lock locking knob (locking rod - up from model-year 2011) - remove and install

Special tools and workshop equipment required

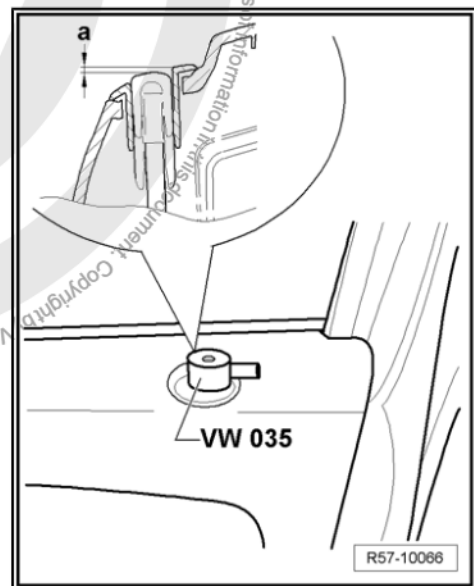


◆ Puller and Installer -VW 035-



1.22.1 Removal

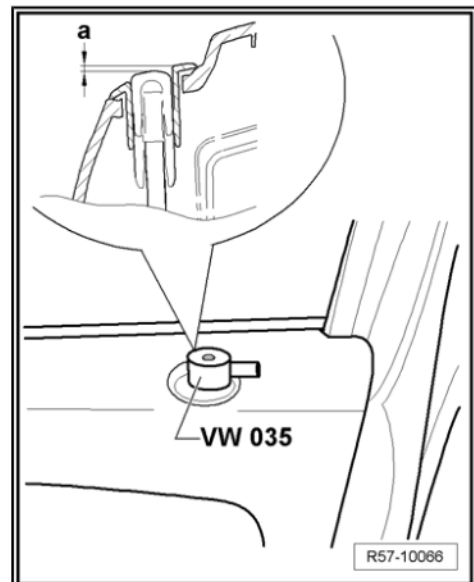
- With the locking pin completely raised, fit the Puller and Installer -VW 035- and release the pin.
- Remove the tool with the pin.



1.22.2 Installation

- Insert the pin to the Puller and Installer -VW 035- and screw the pin so that when locked the pin is positioned -nd- concerning the door lining.

Measurement -nd- = 0 to 1 mm

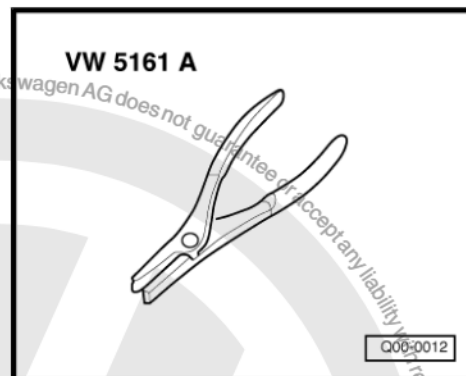


1.23 Lock actuating cable (up to model-year 2010) - replace

Special tools and workshop equipment required

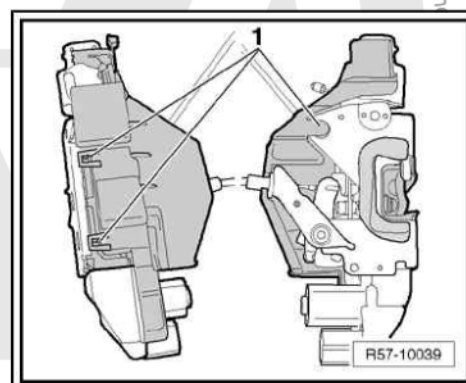


◆ Pliers -VW 5161A-

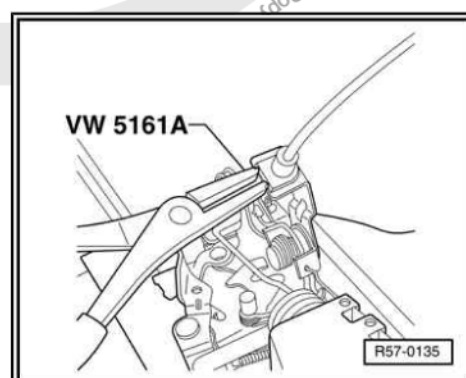


1.23.1 Removal

- Remove the door lock ⇒ [page 75](#) .
- Unslot the locks -1- and separate the lock cover cap.
- Unfit bushing cable end.

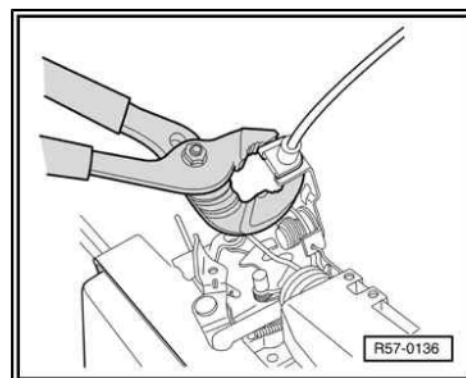


- Slightly open the cable fitting support with the Pliers -VW 5161A- .
- Unfit cable and remove it.



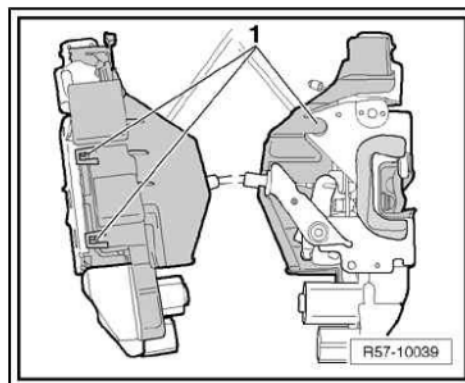
1.23.2 Installation

- Fit cable to lock mounting.
- Fit cable end to bushing.





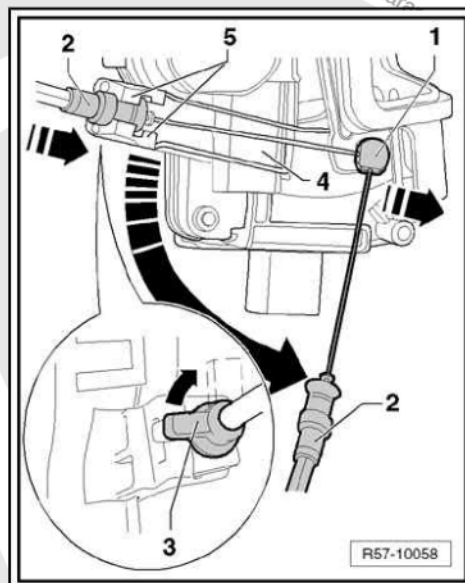
- Slightly tighten cable fitting mounting with pliers.
- Fit the locks -1- from the lock cover cap.
- Install the door lock ⇒ [page 75](#) .



1.24 Lock actuating cable (up from model-year 2011) - replace

1.24.1 Removal

- Remove the door lock ⇒ [page 79](#) .
- Turn the lock -3- of the cover cap 90°.
- Disengage the lock cable -5- and displace the cable -2- 90° in order the retainer of the cable -1- is aligned with the cutting of the lock lever and can be removed.
- Disengage the cable and remove it.



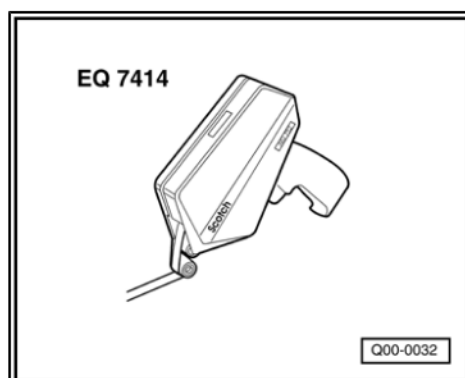
1.24.2 Installation

- Install in reverse order as of the removal.

1.25 Door sealing membrane - remove and install

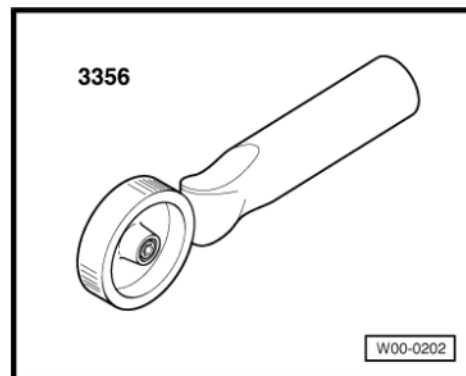
Special tools and workshop equipment required

- ♦ Transferable adhesive tape applicator -EQ 7414-

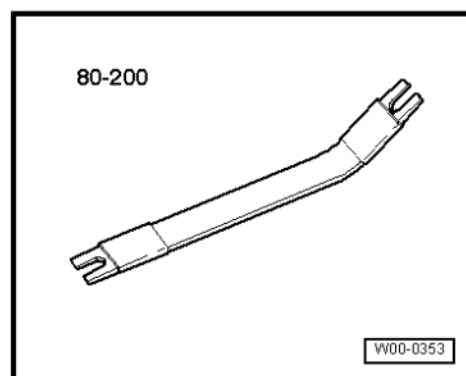




◆ Press tool -3356-



Ejector lever -80-200-



1.25.1 Removal



Note

The membrane consists of an adhesive coating that guarantees removal up to 3 times without affecting the performance of the adhesive. If the adhesive layer is damaged, i.e., by removing it for the fourth time, install the membrane using transferable adhesive tape ⇒ Chemical Materials Manual, according to the information below.

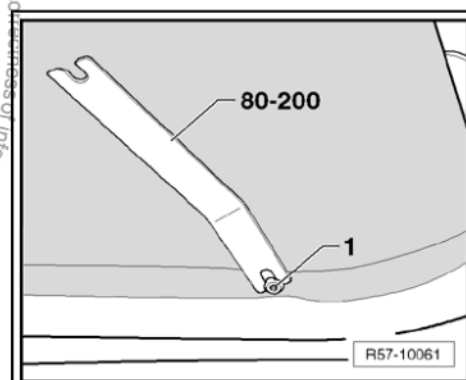
- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove the loudspeaker, if any.
- Remove the adhesive tapes that fasten the membrane to the lock operation cables and harnesses.
- Remove the bushings -1- with Ejector lever -80-200- (models up from model-year 2011).
- Pull the sealing membrane off and remove it.



Note

Note on the own membrane the number of times that it was removed, 1nd., 2nd. or 3nd. times

- Remove adhesive residues on door internal panel.





1.25.2 Installation



Note

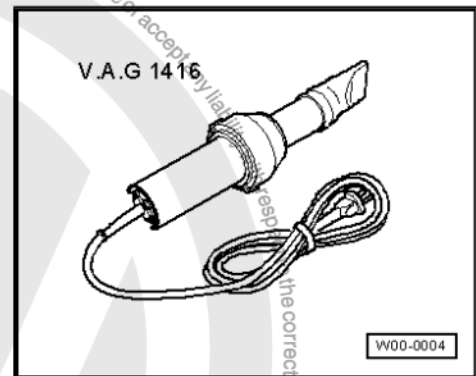
Apply transferable adhesive tape ⇒ Chemical Materials Manual to the door inner panel (gluing area of the membrane) with the Transferable adhesive tape applicator -EQ 7414- in case there is loss of membrane adherence.

- Install the membrane by passing the cable and harnesses through the holes and stick it to the door inner panel.
- Press the sealing membrane of the door with the Press tool -3356- .
- Fix the sealing membrane to the door lock operation cable and harnesses.
- Install the lower attaching bushings of the door lining (models up from model-year 2011).
- Install the loudspeaker, if any.
- Install the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .

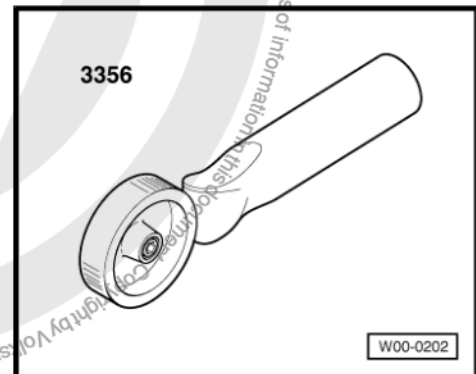
1.26 Door sealing trim - Assembly overview

Special tools and workshop equipment required

- ♦ Blow pipe -VAG 1416-

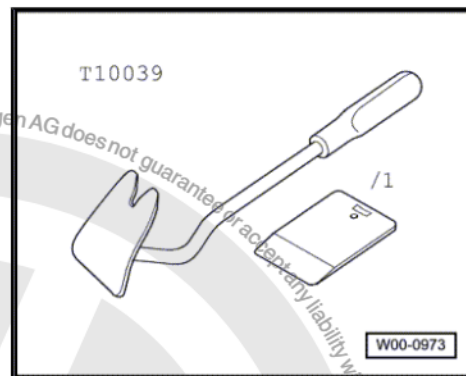


- ♦ Press tool -3356-





◆ Wedge -T 10039/1-



1 - Double faced adhesive tape

- ☐ When assembling a new outer weatherstrip, remove the liner of the double faced adhesive tape.

2 - Door external packing

- ☐ Self-adhesive
- ☐ Remove and install
⇒ [page 88](#)

3 - Door inner packing

- ☐ It is covered on the lower portion by the door sill panel
- ☐ Remove and install
⇒ [Item 3 \(page 91\)](#)

4 - Threshold sill

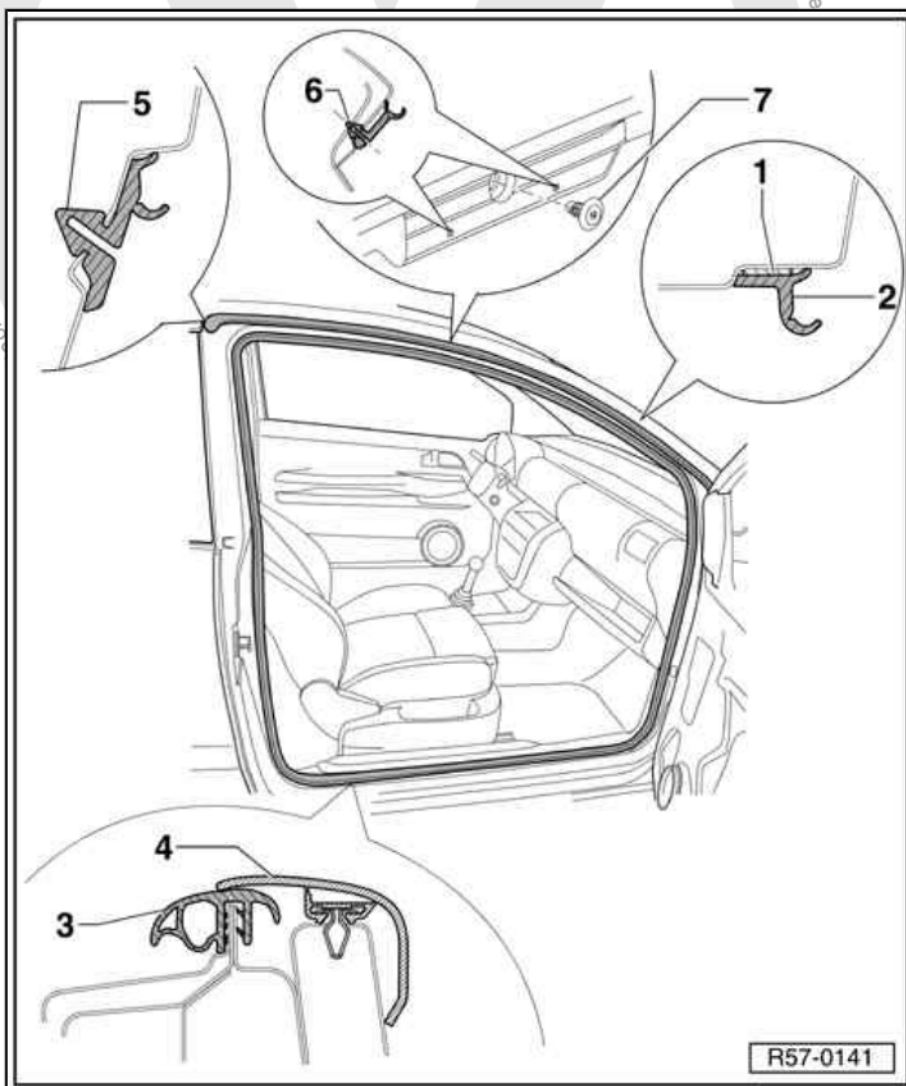
- ☐ Remove and install ⇒
Body - internal mountings; Rep. Gr. 68 ; Internal equipment

5 - Fit the outer door weatherstrip (rear portion)

6 - Fit the outer door weatherstrip (luggage compartment portion)

7 - Pin

- ☐ Under pressure ► 02.05
- ☐ Screwed 03.05 ►





1.27 Door outer weatherstrip - Remove and install

1.27.1 Removal

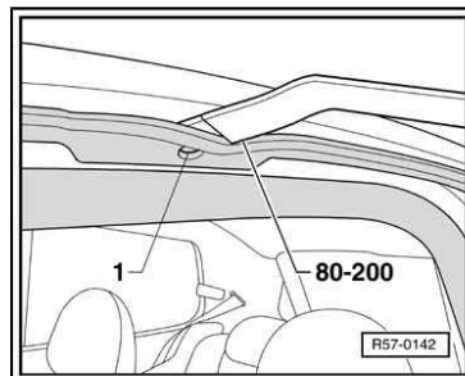
- Remove the attaching pin with the Ejector lever -80-200-



Note

Removable with the Ejector lever -80-200- only for vehicles manufactured up to 02.05. The pin is screwed for the vehicles manufactured up from 03.05.

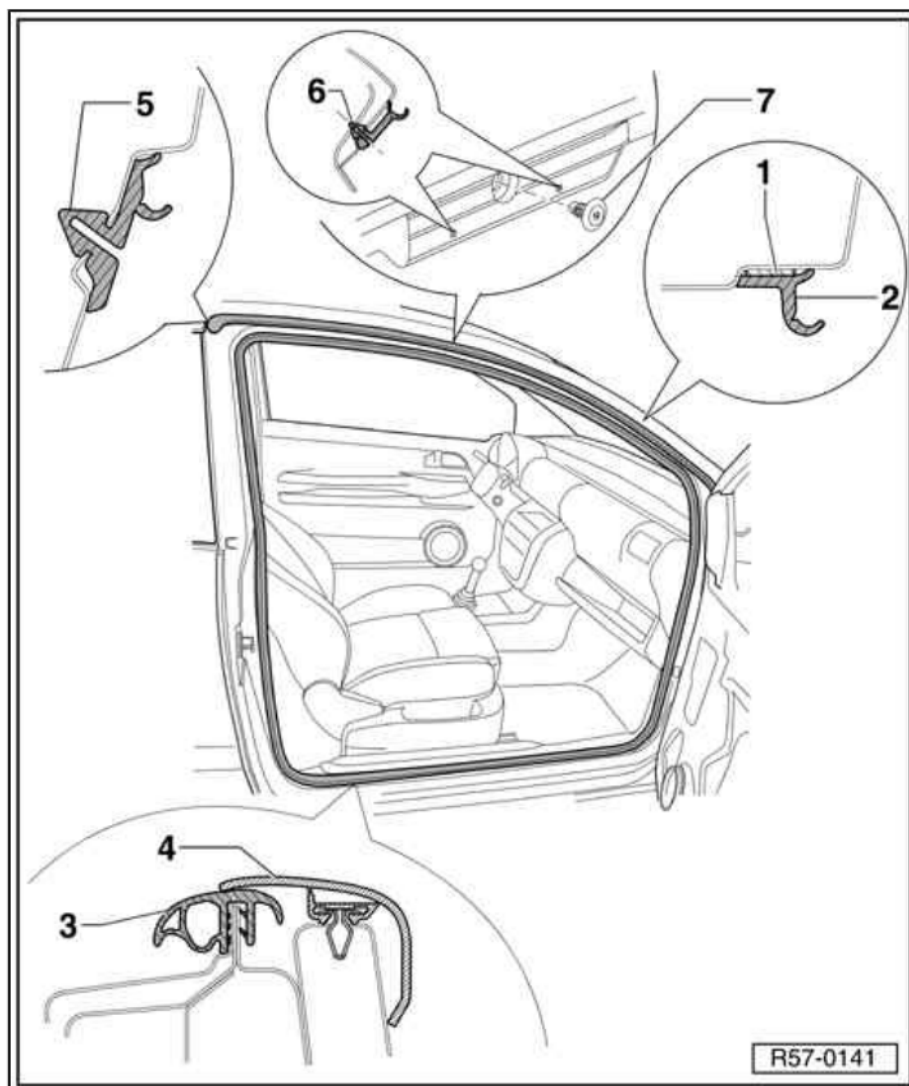
- Heat the area with the Blow pipe -VAG 1416- .
- Unglue the weatherstrip using the Wedge -T 10039/1- .



1.27.2 Installation

- Clean the door frame gluing area with the Adhesive remover -D 002 000 10- and, then, apply the Cleaning solution -D 009 401 04- . Dry the area with a dry cloth.
- Heat the adhesive tape of the weatherstrip and door frame, at the assembly area with the Blow pipe -VAG 1416- at a temperature ranging from 30 to 40°C.





- Press the fitting -6- of the weatherstrip and then press the fitting -5- of the weatherstrip against the holes of the door frame.
- Remove the double faced adhesive tape liner -1- and glue the weatherstrip pressing it forcefully (more than 10 N) with the aid of the Press tool -3356-. Move the press tool always in the same direction.



Note

Avoid the rolling movement.

- Install the pin -7-.



Note

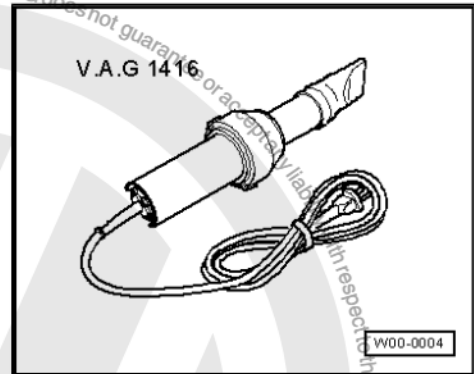
After the assembly, the door should remain open for a minimum period of 30 minutes so that the pressure of the door under the weatherstrip do not cause the premature ungluing of the weatherstrip.



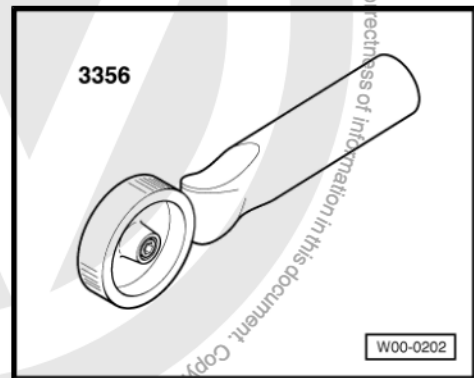
1.28 Door inner weatherstrips - Assembly overview

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-





1 - Outer door seal

☐ Self-adhesive

☐ Removal:

- In order to remove the seal, heat it using the Blow pipe -VAG 1416-.

- Clean the cutting of the door with the Cleaning solution -D 009 401 04- and carry out the treatment with the Silicone remover -LSE 020 100 A3- rubbing it until drying.

☐ Installation:

- Press the seal end plug inside the door recess opening.
- Remove the double-face tape protection and glue the seal by starting at the plug.
- Using the Press tool -3356- press it forcefully (more than 40 N).

☐ Approx. operation temperature 20 °C

2 - Double faced adhesive tape

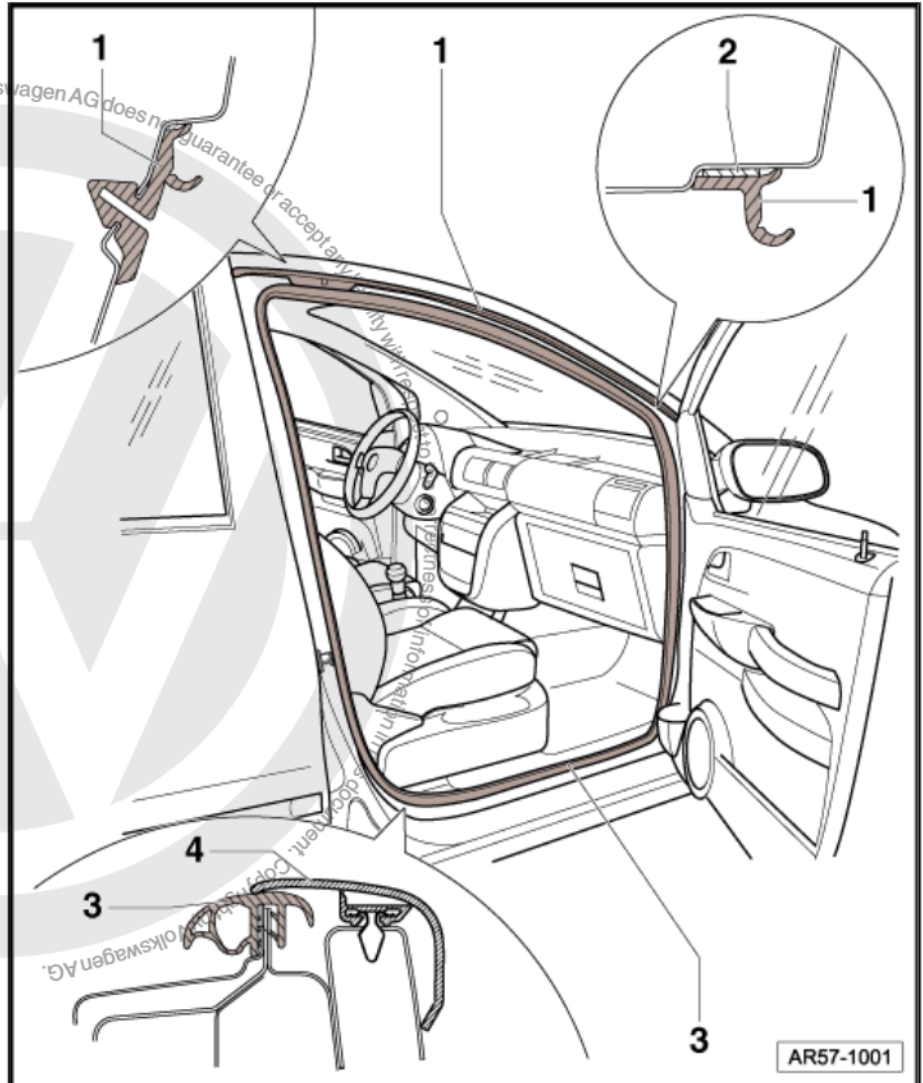
3 - Inner door weatherstrip

☐ It is covered on the lower portion by the door sill lining
⇒ [Item 4 \(page 91\)](#)

☐ In order to install the seal, start from the B-pillar lining

4 - Door-sill trim

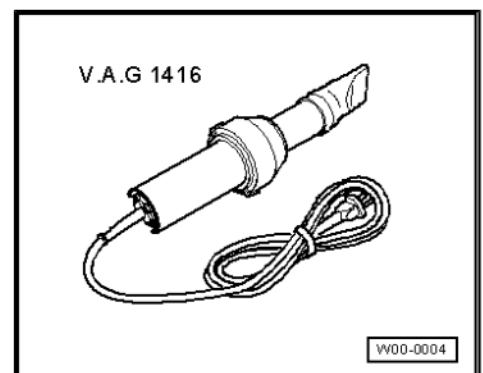
☐ Remove and install ⇒ Body - internal mountings; Rep. Gr. 68 ; Front door-sill trim - Removal and installation



1.29 Front door-sill adhesive - general overview of assembly

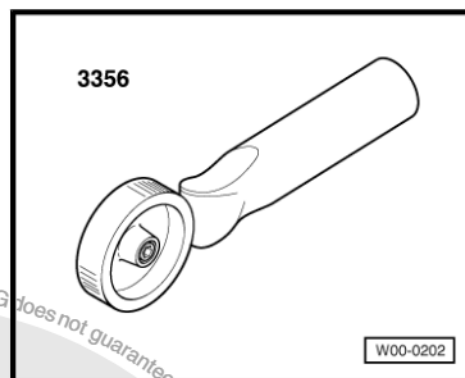
Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-





◆ Press tool -3356-



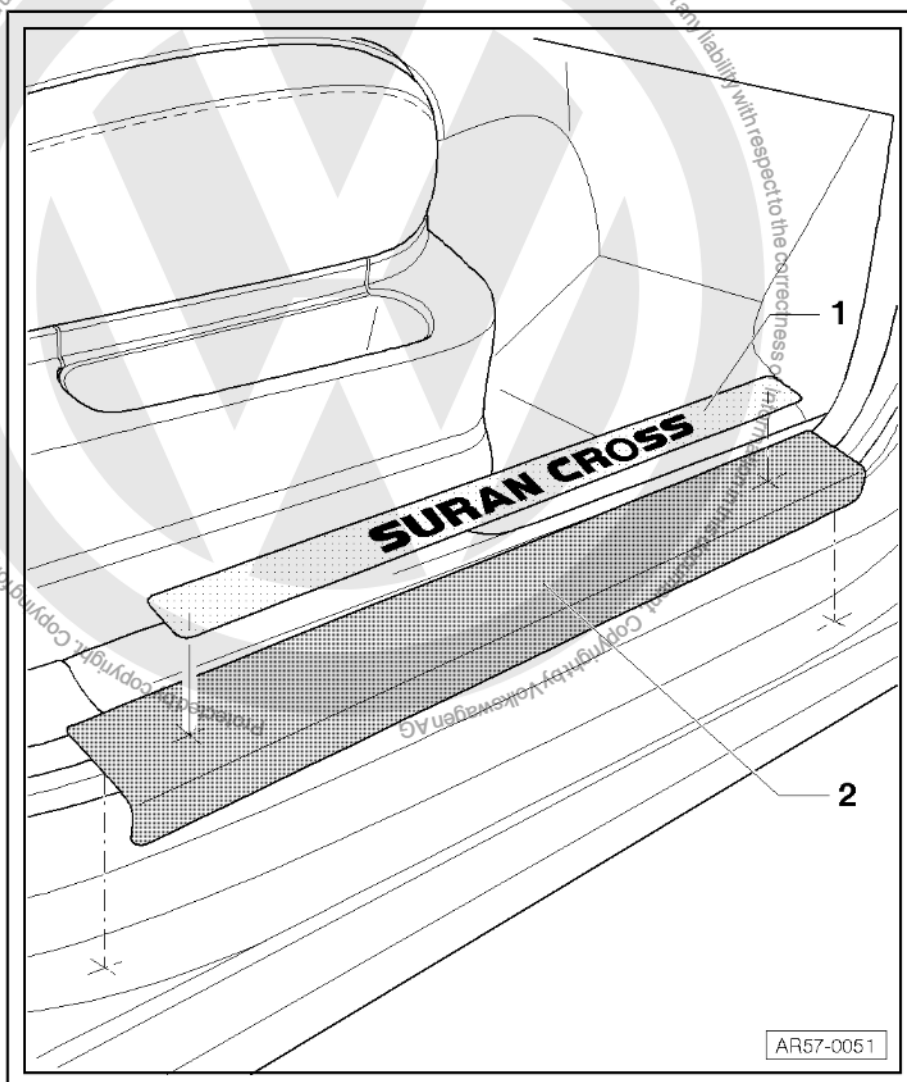
1 - Trim

- ☐ Only for Space Cross and Suran Cross vehicles

- ☐ Self-adhesive

2 - Threshold

- ☐ Self-adhesive



1.30 Cylinders and keys (information specific to Brazil) - request

The key may be requested to the parts department with the original mechanical key code. To do so, follow the instructions in the Parts Memo number 156 from June 2004.

Complete cylinders may be requested by fax (0XX11) 4347-3652 with all the information about the vehicle (chassis number, original mechanical code of the key, etc.)



2 Central locking

2.1 Overview of central locking installation locations

1 - Front hood contact switch / motor cover for alarm system - F120-

2 - Connection

- ☐ Location: on the right side of the engine compartment
- ☐ Location: pillar A
- ☐ The halves should be turned in order to disconnect the connector.

3 - Front passenger side window regulator motor -V148-

- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- ☐ Remove the window operation engine

4 - Right front door lock

- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- ☐ Remove the door lock

5 - Connection

- ☐ Location: pillar B
- ☐ In order to disconnect the connector, remove the protection gaiter

6 - Rear right window regulator motor -V27-

- ☐ Door operation unit in vehicles with comfort system
- ☐ Integrated to the window operation engine
- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- ☐ Remove the rear right window regulator motor -V27-

7 - Right rear door lock

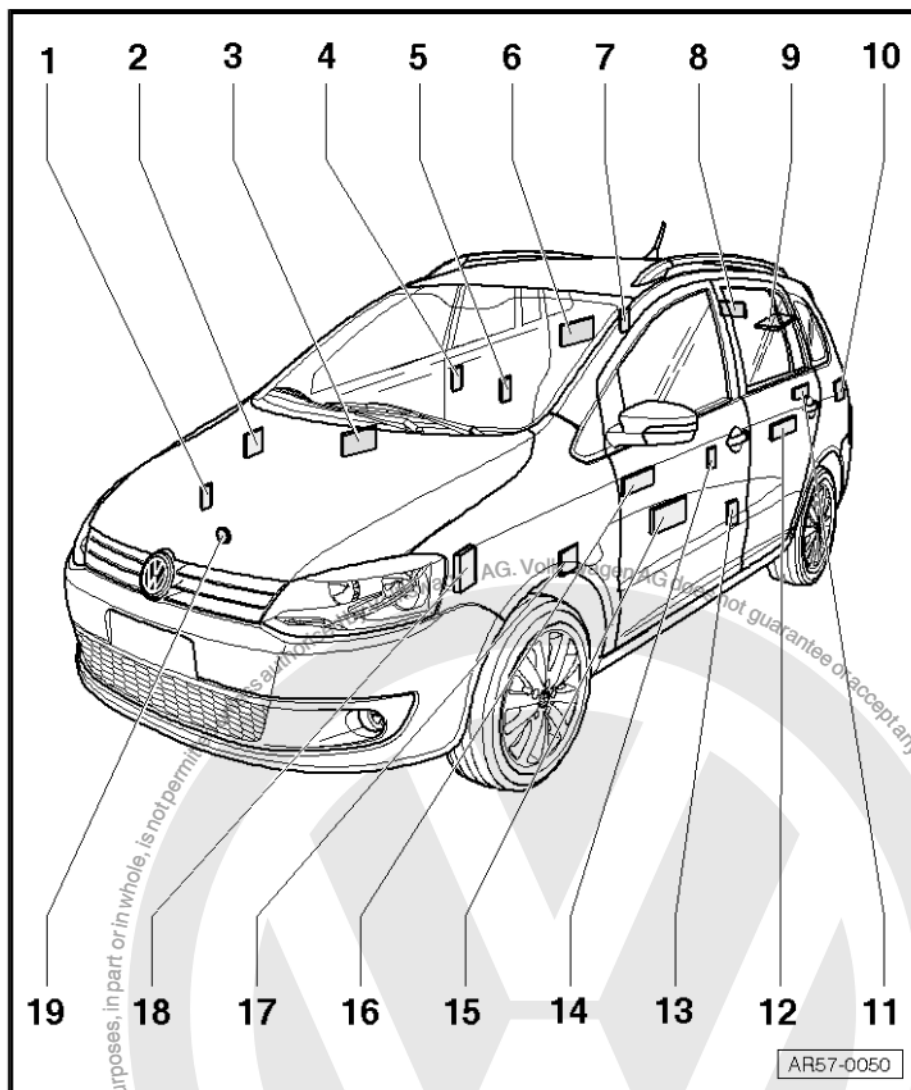
- ☐ Electric central lock is integrated to the door lock module
- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation

8 - Rear lid release motor -V139-

- ☐ Installed on a hood support
- ☐ Remove and install (up to model-year 2010) ⇒ [page 46](#)
- ☐ Remove and install (up from model-year 2011) ⇒ [page 47](#)
- ☐ Remove the door lock

9 - Lid latch

- ☐ Installed on the lid





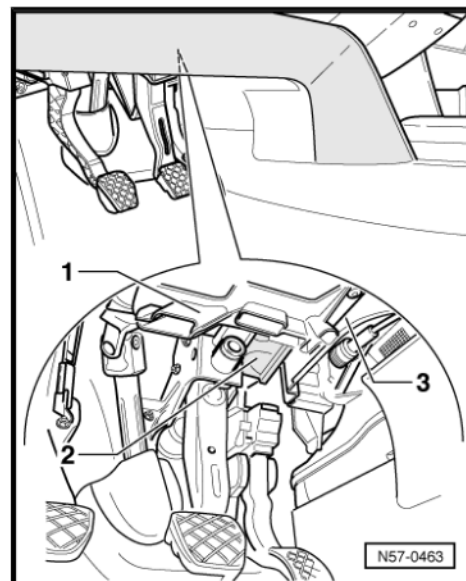
- ☐ Remove and install ⇒ [page 43](#)
- 10 - Connection
 - ☐ Location: on the rear lid behind the lid lining
 - ☐ Remove rear door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- 11 - Left rear door lock
 - ☐ Electric central lock is integrated to the door lock module
 - ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
 - ☐ Remove the door lock ⇒ [page 118](#)
- 12 - Rear left window regulator motor -V26-
 - ☐ Integrated to the window operation engine
 - ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
 - ☐ Remove the window operation engine ⇒ [page 170](#)
- 13 - Connection
 - ☐ Location: pillar B
 - ☐ In order to disconnect the connector, remove the protection gaiter
- 14 - Left front door lock
 - ☐ Electric central lock is integrated to the door lock module
 - ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
 - ☐ Remove the door lock ⇒ [page 75](#)
- 15 - Driver side window regulator motor -V147-
 - ☐ Door operation unit in vehicles with comfort system
 - ☐ Integrated to the window operation engine
 - ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
 - ☐ Remove the window operation engine ⇒ [page 167](#)
- 16 - Command unit
 - ☐ Installed on the door lining
 - ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- 17 - Connection
 - ☐ Location: pillar A
 - ☐ The halves should be turned in order to disconnect the connector.
- 18 - Central control unit for the convenience system -J393-
 - ☐ Assembled onto a support on the central support of the instrument panel
 - ☐ Installation location: it is located beneath the instrument panel, on the driver's side, and over the accelerator pedal (in vehicles with right steering wheel, over the clutch pedal)
- 19 - Alarm system horn -H8-
 - ☐ Location: on the right side of the engine compartment



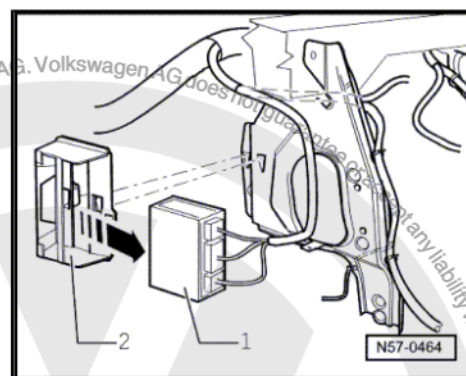
2.2 Central control unit for the convenience system -J393- - remove

The operation unit for convenience system -2- is installed in a plastic support installed on the center bracket -3- of the instrument panel.

- Remove the baffle -1- for the footrest area on the driver's side
⇒ Aeration system; Rep. Gr. 85 ; Fan .



- Pull -arrow- and Operation unit for convenience system -J393- -1- outwards the support -2- and disengage the connector.



2.3 Key with remote control (up to model-year 2010) - Assembly overview



1 - Remote control upper case

2 - Pad-type battery

❑ Replace ➔ [page 96](#)

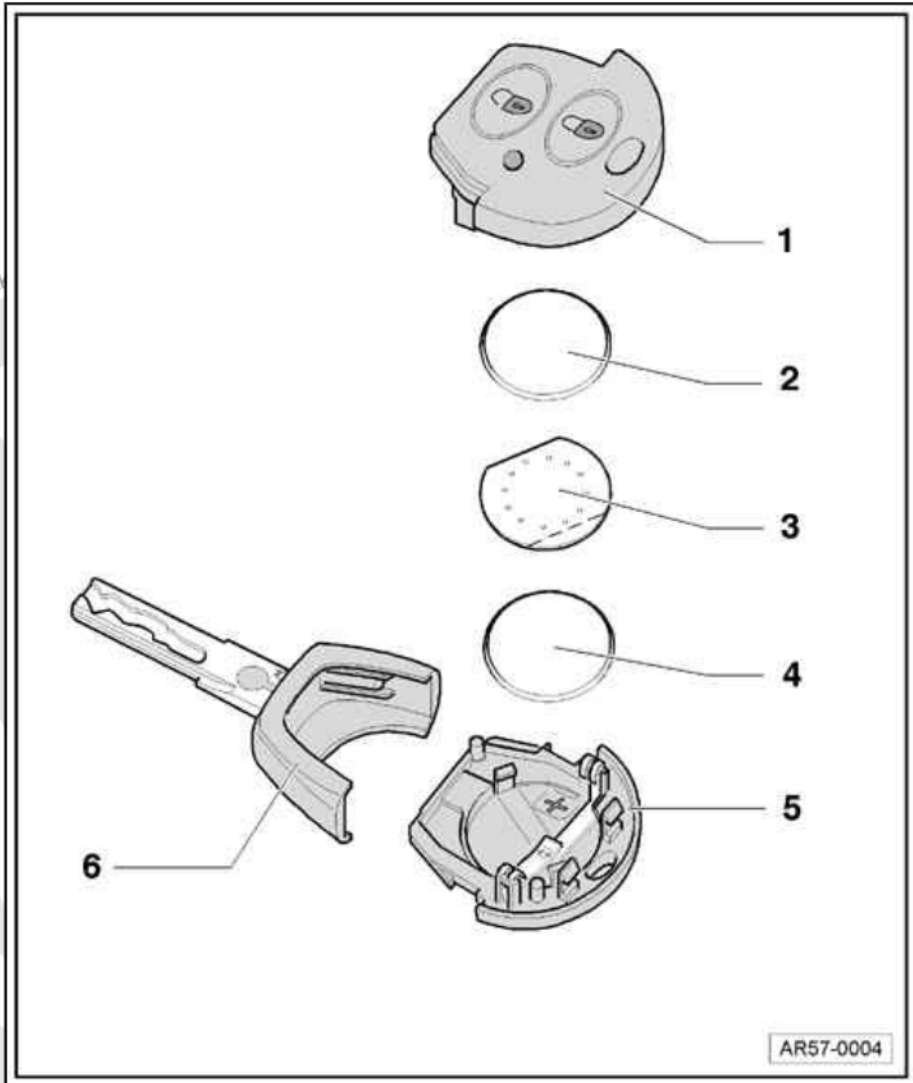
3 - Contact plate

❑ Depending on the version, with one or two straight edges

4 - Remote control lower case

5 - Main key with variable code transponder

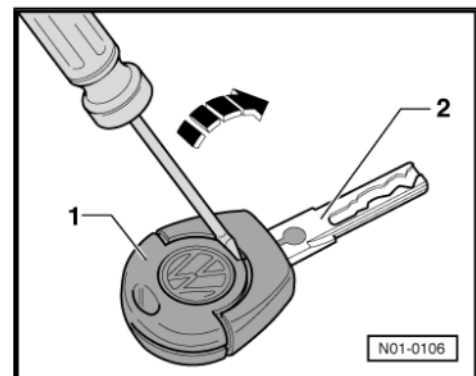
❑ Identified by Volkswagen logo stamped on the key profile



2.4 Batteries for keys equipped with remote control (up to model-year 2010) - replace

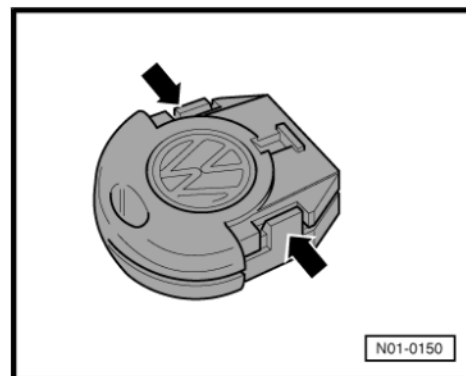
2.4.1 Removal

- Insert the screwdriver in the case opening -1-, opposite side of switches.

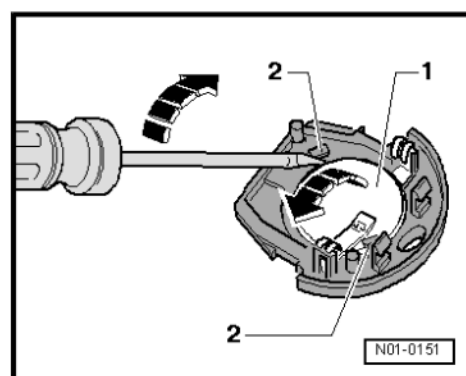




- Move the screwdriver in the direction of the arrow and separate the key cases -2-.



- Using a screwdriver, unlock the locks -arrows-.
- Disengage the upper battery -1- from supports -2- with a screwdriver in direction of arrow.



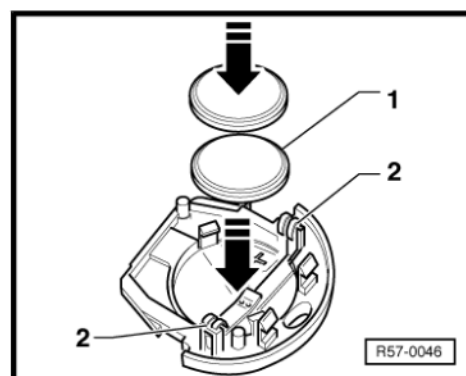
2.4.2 Installation



Note

Up from 03.09, chassis 94140941, there is only a 3V battery for the remote control.

- Install the first battery -1- with the positive pole faced upwards in the battery case. Then install the second battery in the same way of the first, until the two locks -2- lock.



Note

When installing the battery ensure proper polarity and assembly position.

- Press the remote control switch case towards the battery case carefully in such a way that damages to sealing are avoided.
- Insert the key.

2.5 Key battery with remote control (up from model-year 2011) - assembly overview



1 - Key with variable code transponder

2 - remote control - upper portion

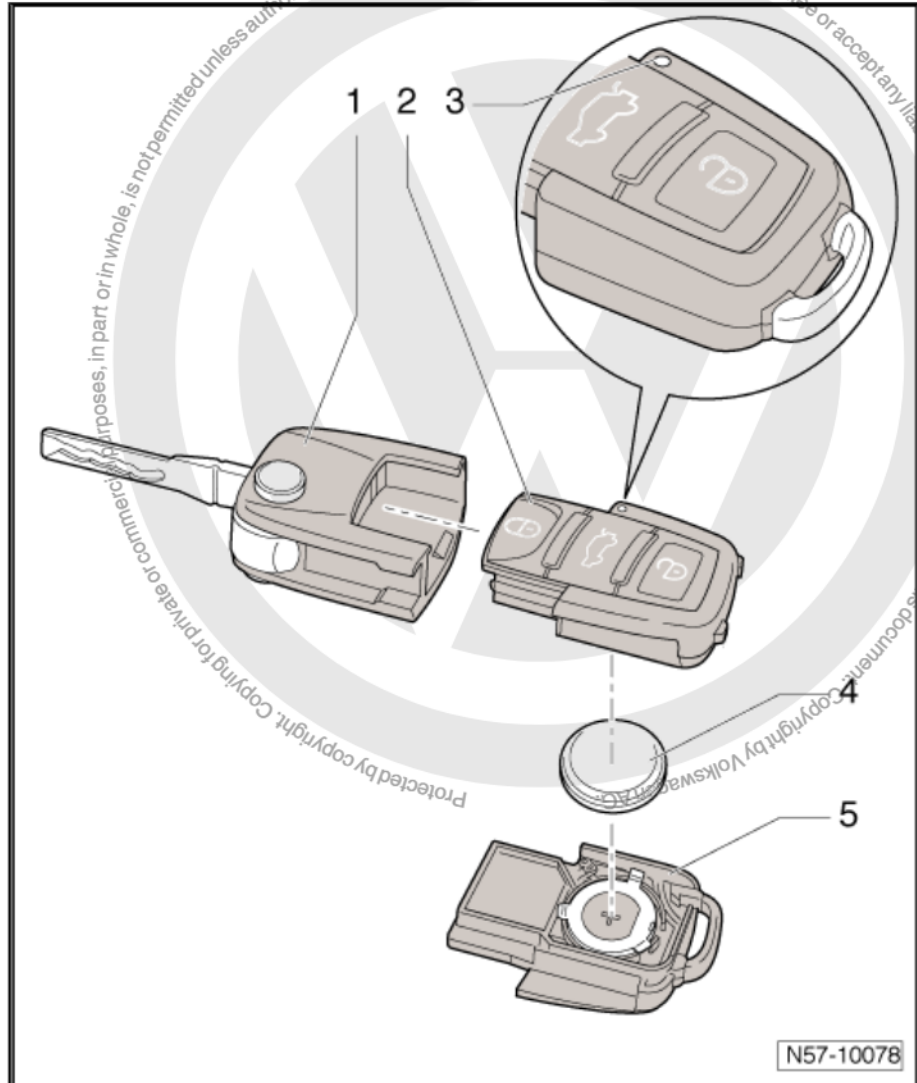
3 - Light emitting diode (LED)

- ☐ The LED light has to flash when actuating the remote control.
- ☐ In case the LED light does not flash when actuating the remote control, the battery is discharged and should be replaced.

4 - Battery

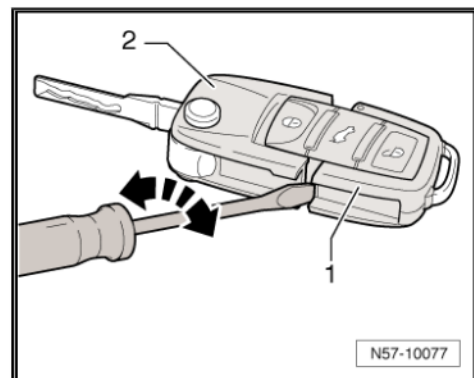
- ☐ Remove the battery
⇒ [page 98](#)
- ☐ Install the battery
⇒ [page 99](#)

5 - Remote control - lower portion



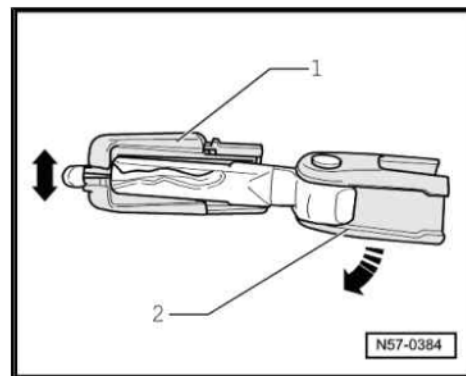
2.5.1 Removal

- Fit the screwdriver to the slot between the remote control -1- and the key -2-.

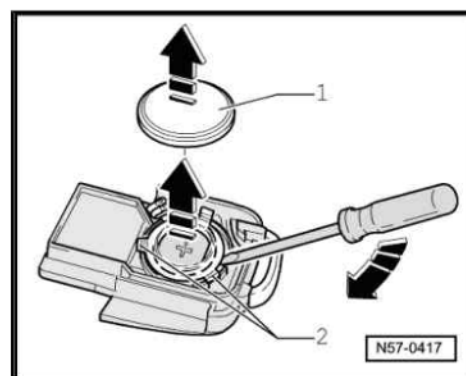




- Turn the screwdriver in the direction of the -arrow- so as to separate the remote control from the key.



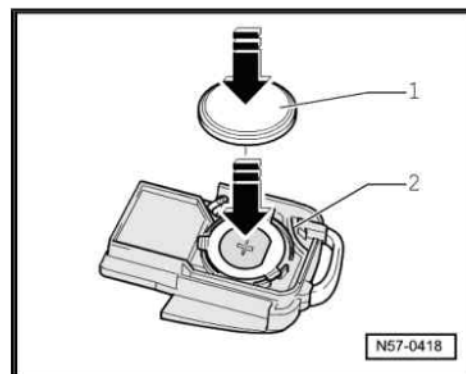
- Open the remote control -1- with the key body -2-.
- Disengage the battery -1- from the attachments -2- , with the aid of the screwdriver, in the direction of the -arrow-.



2.5.2 Installation

When installing the cell, pay attention to the polarity and assembly position.

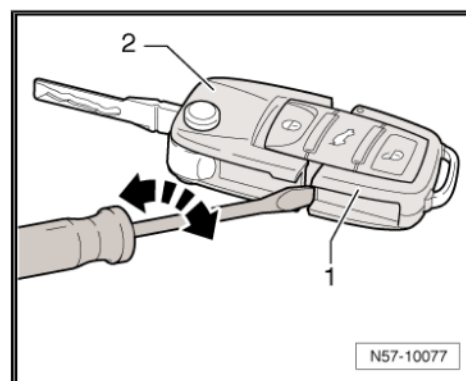
- Install the battery -1- to the remote control -2- with the positive pole faced downwards (the positive pole is marked on the case).
- Pressing slightly the battery, it is fitted to the remote control.
- Install the cover to the remote control (do not damage the joint).
- Fit the remote control to the key.



2.6 Key battery with remote control (up from model-year 2011) - replace

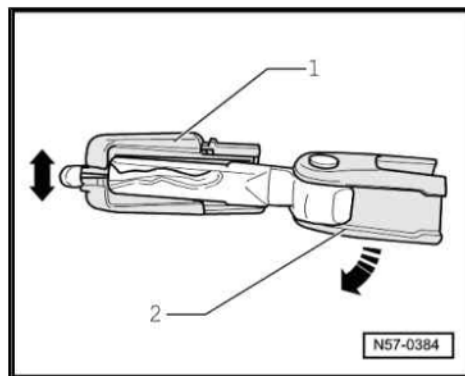
2.6.1 Removal

- Fit the screwdriver to the slot between the remote control -1- and the key -2-.

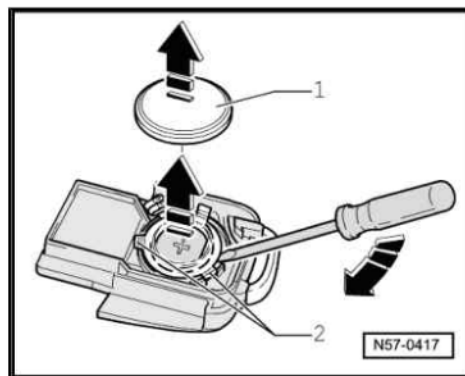




- Turn the screwdriver in the direction of the -arrow- so as to separate the remote control from the key.



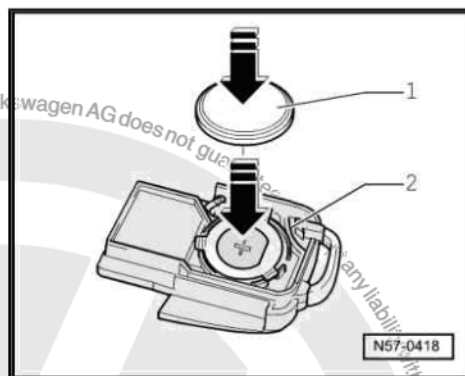
- Open the remote control -1- with the key body -2-.
- Disengage the battery -1- from the attachments -2- with the aid of the screwdriver, in the direction of the -arrow-.



2.6.2 Installation

When installing the cell, pay attention to the polarity and assembly position.

- Install the battery -1- to the remote control -2- with the positive pole faced downwards (the positive pole is marked on the case).
- Pressing slightly the battery, it is fitted to the remote control.
- Install the cover to the remote control (do not damage the joint).
- Fit the remote control to the key.



2.7 Fitting of the keys with remote control

The fitting of the keys with remote control is done with the Diagnosis, Measurement and Information System -VAS 5051A/52- .

- Select in Diagnosis, Measurement and Information System -VAS 5051A/52- the "Assisted troubleshooting".
- Select the function "Selection of components" through the key Sprung and sequentially the following options of menu:
 - ◆ Body
 - ◆ General body repairs
 - ◆ 01 - Self-diagnosis systems
 - ◆ Convenience systems
 - ◆ Functions - Convenience system
 - ◆ Fitting of the keys with remote control



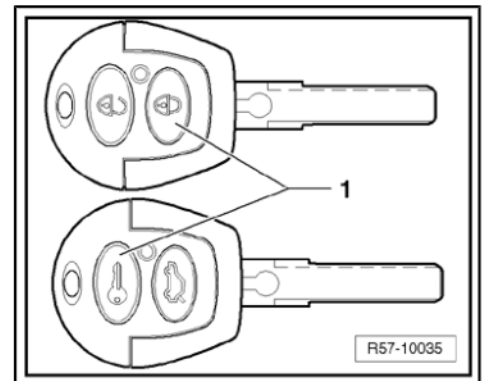
2.8 Key (up to model-year 2010) - synchronize

The key synchronization is required when some key is actuated out of system field of action

- Turn the ignition key on using the spare key.
- Insert the key with the remote control in the door cylinder, driver's side. Turn it counter-clockwise and keep it in this position.
- Press the key -1- continuously until getting the synchronism that will happen after the automatic locking and unlocking of the doors.

A Central control unit for the convenience system -J393- store up to two synchronizations. In order to effect the third synchronization, it is required to reset the unit through the Diagnosis, Measurement and Information System -VAS 5051A/52- .

- ◆ "46 - Convenient system central module."
- ◆ "Function 10 - Fitting"
- ◆ "Channel 11" , reset.



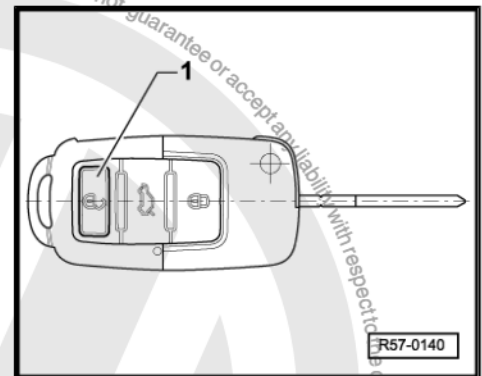
2.9 Key (up from model-year 2011) - synchronize

The key synchronization is required when some key is actuated out of system field of action

- Turn the ignition key on using the spare key.
- Insert the key with the remote control in the door cylinder, driver's side. Turn it counter-clockwise and keep it in this position.
- Press the key -1- continuously until getting the synchronism that will happen after the automatic locking and unlocking of the doors.

A Central control unit for the convenience system -J393- store up to two synchronizations. In order to effect the third synchronization, it is required to reset the unit through the Diagnosis, Measurement and Information System -VAS 5051A/52- .

- ◆ "46 - Convenient system central module."
- ◆ "Function 10 - Fitting"
- ◆ "Channel 11" , reset.





58 – Rear doors/Door components

1 Rear doors

1.1 Rear doors (up to model-year 2010) - assembly overview

1 - Lock knob

- ☐ Installed on the lock rod until the stopper
- ☐ Under the condition -locked door-, the upper end of the button should be 19 mm above the door lining. In case the door is unlocked, the upper end of the knob shall be 29 mm above the door lining

2 - Lock rod

3 - Inversion lever

- ☐ Replace ➔ [page 124](#)

4 - Command rod

5 - Interior door handle

- ☐ Remove and install ➔ [page 111](#)

6 - Lock operating cable

- ☐ Remove and install ➔ [page 125](#)

7 - Door lock

- ☐ Lubricate with multi-purpose grease ➔ Chemical Materials Manual or -G 052 745 A2-

8 - Screw

- ☐ M6 x 10
- ☐ 4 Nm

9 - Lock

- ☐ Remove and install ➔ [page 118](#)

10 - Exterior handle

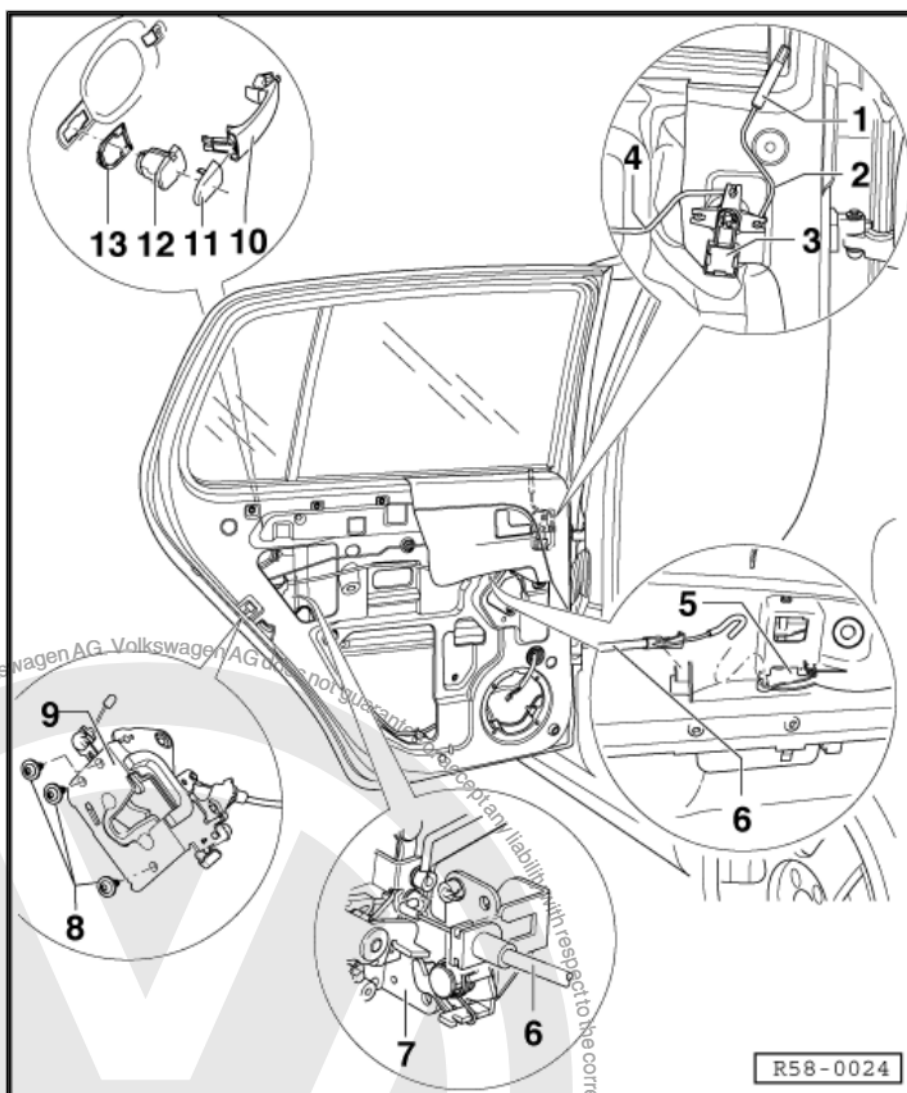
- ☐ Remove and install ➔ [page 115](#)

11 - Cover cap

12 - Exterior handle housing

- ☐ Remove and install ➔ [page 114](#)

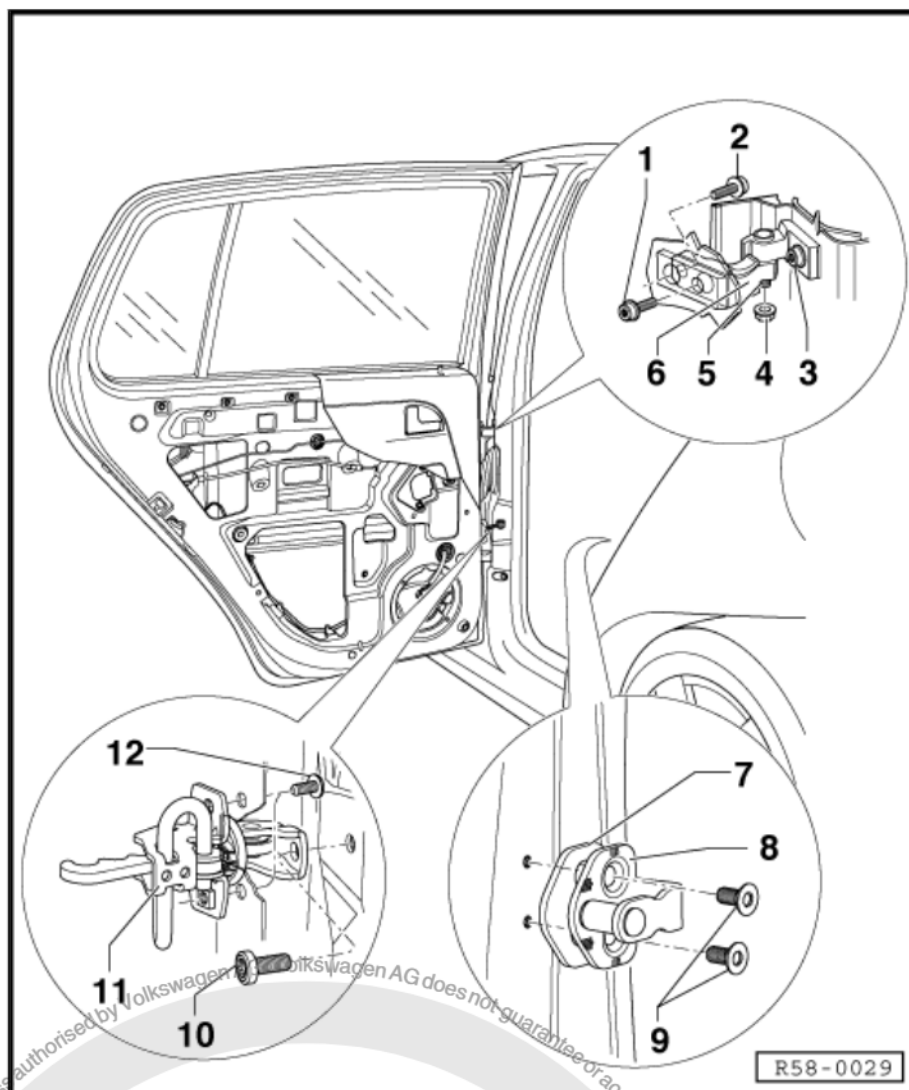
13 - Bracket



Rear doors - assembly overview - continued



- 1 - Screw
 - ☐ M 8
 - ☐ 20 Nm + $\frac{1}{4}$ (90°)
 - ☐ Shall be replaced whenever loose or removed
- 2 - Screw
 - ☐ M 8
 - ☐ 20 Nm + $\frac{1}{4}$ (90°)
 - ☐ Shall be replaced whenever loose or removed
- 3 - Screw with inner multitooth
 - ☐ M 8
 - ☐ T20 Nm + $\frac{1}{4}$ (90°)
 - ☐ Shall be replaced whenever loose or removed
- 4 - Nut
 - ☐ 14 Nm
- 5 - Hinge pin
- 6 - Door hinge
- 7 - Bracket
- 8 - Stopper
 - ☐ Adjust ⇒ [page 109](#)
- 9 - Screw
 - ☐ 20 Nm
- 10 - Screw
 - ☐ 25 Nm
- 11 - Door limiter
 - ☐ Remove and install ⇒ [page 110](#)
- 12 - Screw
 - ☐ 6 Nm



R58-0029



1.2 Rear doors (up from model-year 2011) - assembly overview

1 - Exterior handle

- ☐ Remove and install
⇒ [page 113](#)

2 - Cylinder case without lock cylinder

- ☐ Remove and install
⇒ [page 114](#)

3 - Cover cap

4 - Lock knob

- ☐ Installed on the lock rod until the stopper
- ☐ Position concerning the door lining ⇒ [page 127](#)

5 - Lock rod

6 - Eyelet

7 - Bushing

8 - Lock operating lever

9 - Screw

- ☐ 20 Nm

10 - Door lock

- ☐ Remove and install
⇒ [page 122](#)

11 - Lock operating cable

- ☐ Remove and install
⇒ [page 126](#)

12 - Screw

- ☐ 25 Nm

13 - Door limiter

- ☐ Remove and install
⇒ [page 110](#)

14 - Screw

- ☐ 6 Nm

15 - Screw

- ☐ 20 Nm

16 - Door stop

- ☐ Adjust ⇒ [page 109](#)

17 - Screw

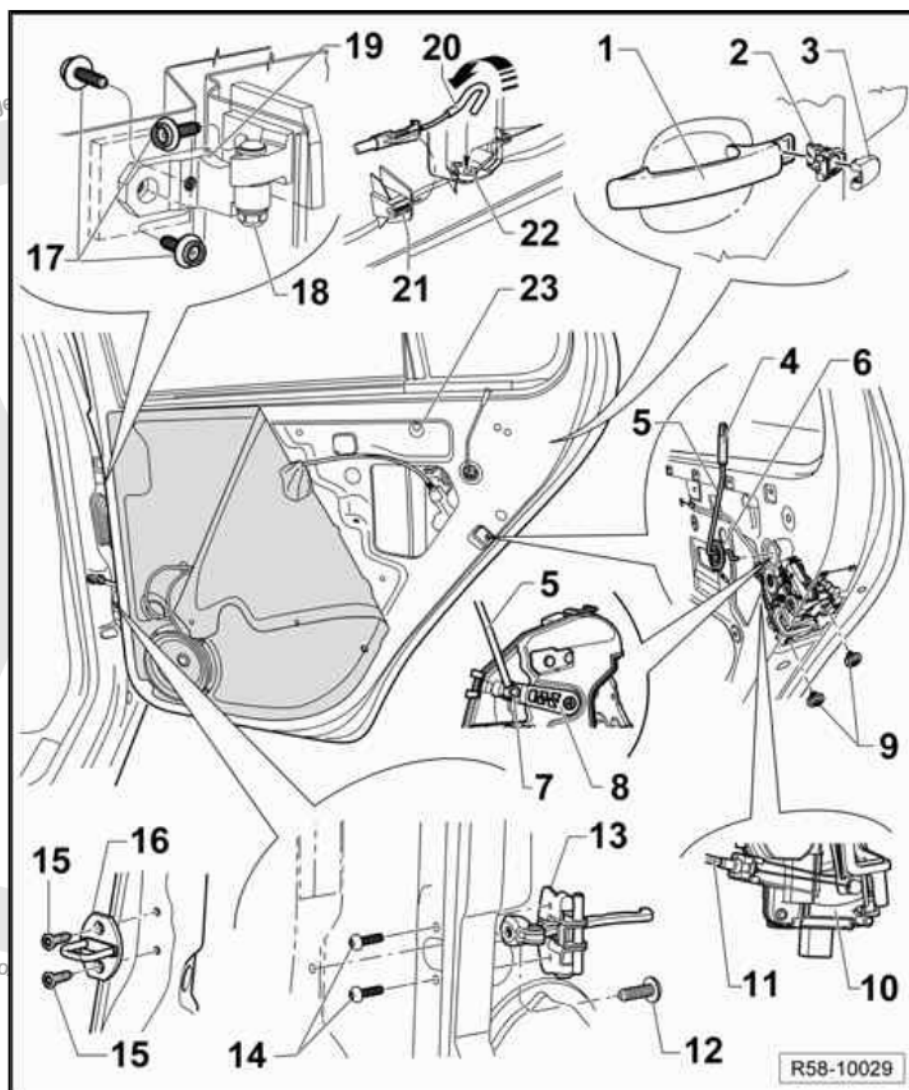
- ☐ M 8
- ☐ 20 Nm + 1/4 (90°)
- ☐ Shall be replaced whenever loose or removed

18 - Nut

- ☐ 14 Nm

19 - Door hinge

- ☐ In two parts





20 - Hook of the lock operating cable

21 - Cable support

- ☐ in the door trim

22 - Internal door handle

23 - Door

- ☐ Remove and install ➔ [page 105](#)
- ☐ Adjust ➔ [page 107](#)
- ☐ Disassemble and assemble ➔ [page 109](#)
- ☐ Replace ➔ [page 109](#)

1.3 Rear door - remove and install

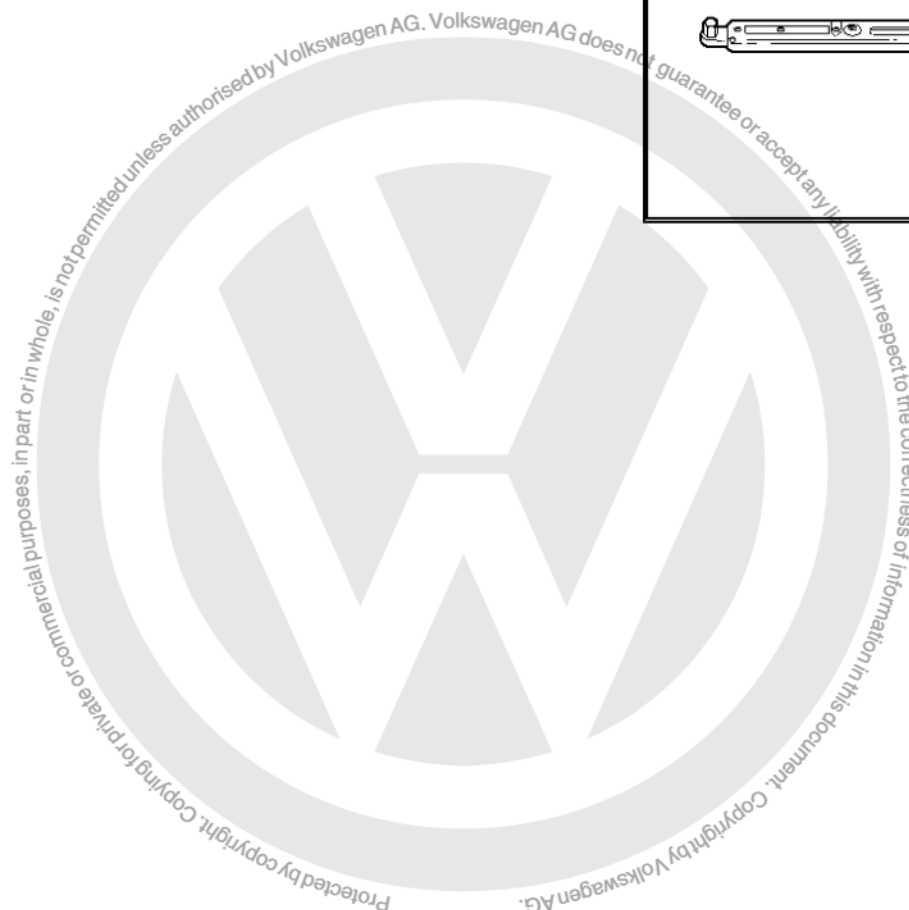
Special tools and workshop equipment required

- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

V.A.G 1331

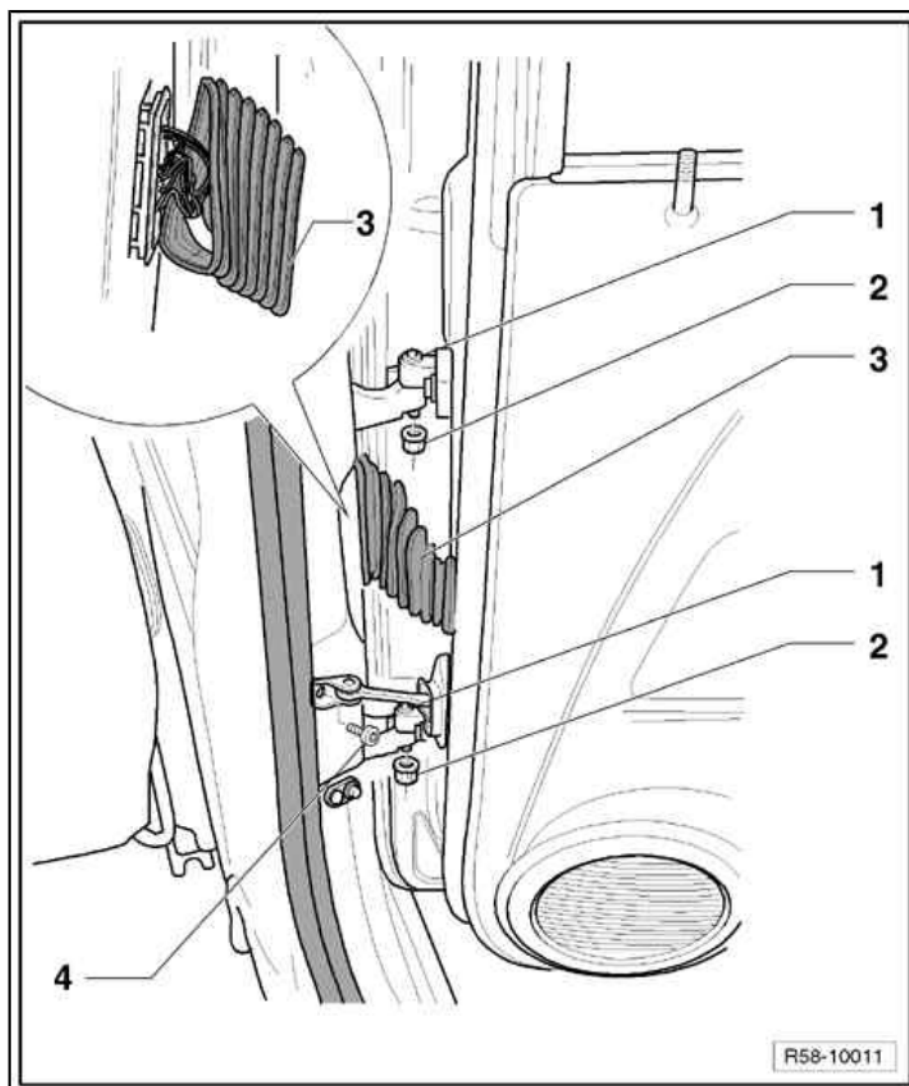


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1.3.1 Removal



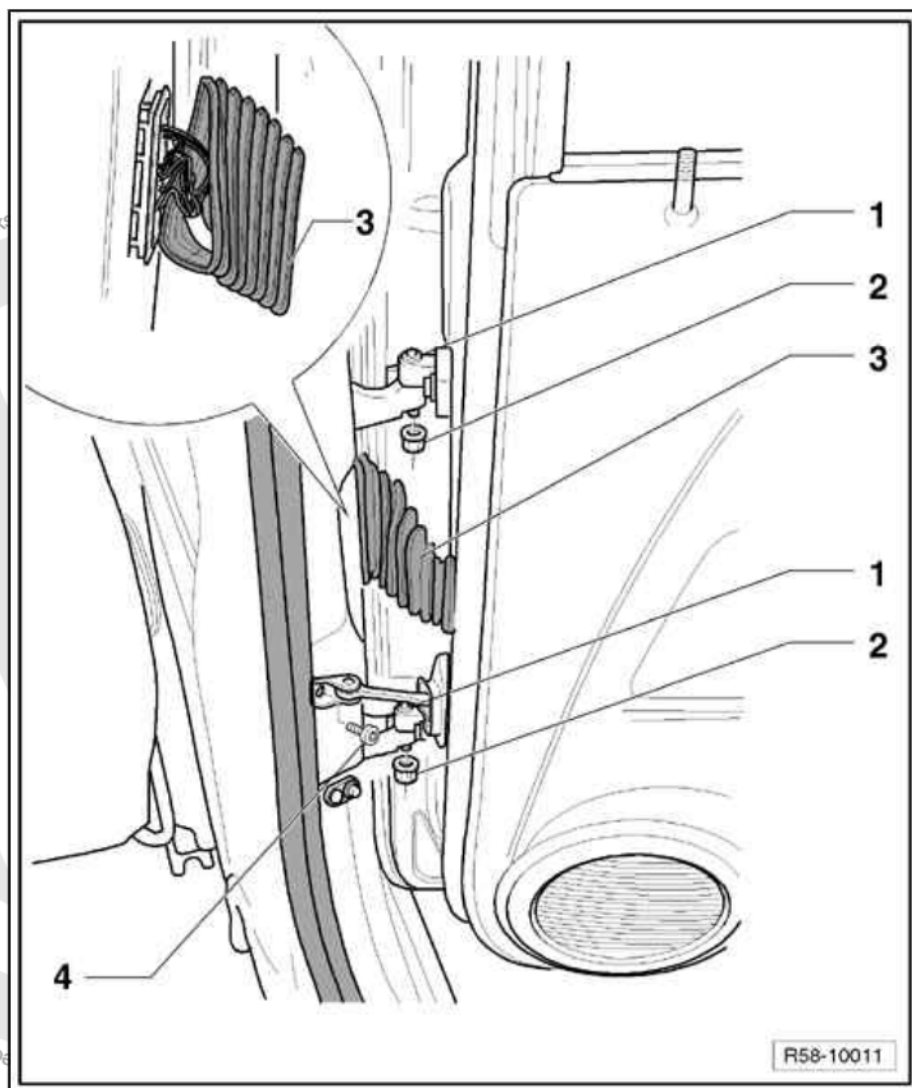
- Pull the protective boot -3- from pillar B and disconnect the electric connections of the connector installed on pillar B.
- Remove the nuts -2- from the hinge pins -1-.
- Remove the screw -4- from the door stopper.
- ?Disengage the door upwards and out of the hinge edges.

1.3.2 Installation

The installation is done in the reverse sequence. In this case, we should pay attention to the following:



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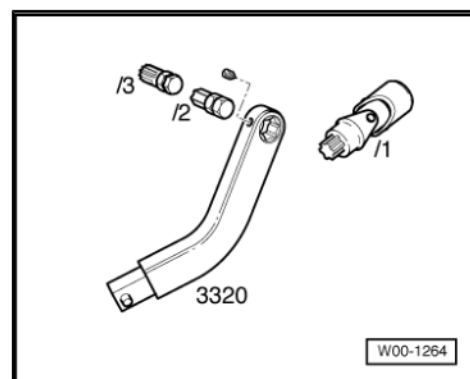


- Tighten nuts -2- of the hinge pins with 14 Nm.
- Tighten the screw -4- of the door stopper with 25 Nm.

1.4 Rear door - adjust

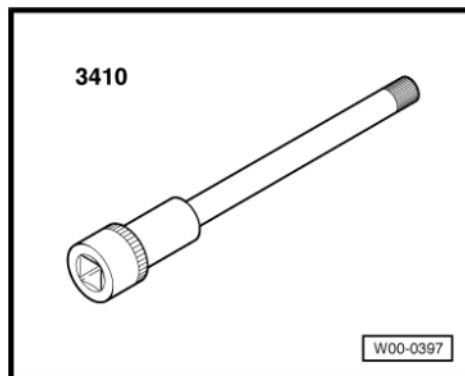
Special tools and workshop equipment required

- ◆ Wrench -3320-
- ◆ Multitoothed bits -3320/3-

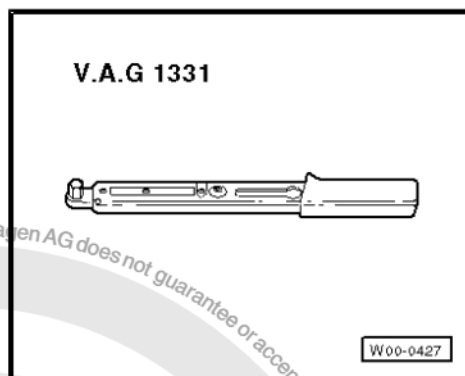




◆ Multitoothed socket -3410-



◆ Torque wrench - 5 to 50Nm (socket 1/2") -VAG 1331-



Note

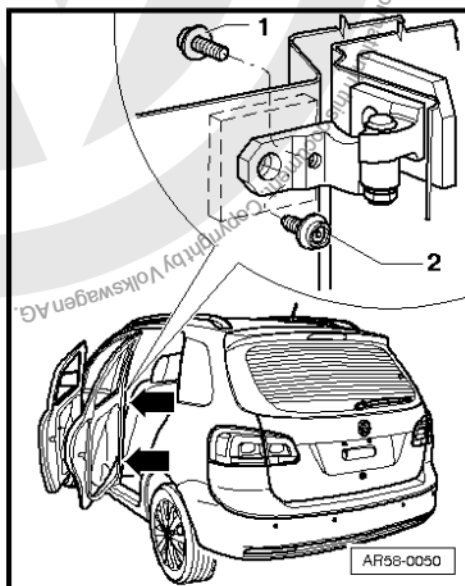
- ◆ In order to adjust the front door correctly, the vehicle shall be supported on its wheels.
- ◆ The front door will be correctly adjusted when the clearances are according to the specification ⇒ Body Repairs; Rep. Gr. 70 ; Technical data - Body clearance measures when the door is closed.
- ◆ After reinstallation or adjustment, adopt protective measures against corrosion in the hinges and screws.

In order to get the clearance adjustment correctly, the screws -1-, and -2- on pillar A should be loosened.

- For the screw -1-, in the door lower hinge, the lower lining of pillar B should be removed: ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation . Untighten the screw with the multitoothed socket -3410- .
- For the screw -1-, in the door upper hinge, the upper lining of pillar B should be removed: ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation . Untighten the screw with the multitoothed socket -3410- .

For the screw -2-, untighten it with the screwdriver -3320- and multitoothed bits -3320/3- .

Adjust the door stop ⇒ [page 109](#) .





1.5 Rear door- disassemble and assemble

1.5.1 Disassembly

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove the door sealing membrane ⇒ [page 84](#) .
- Remove the door window actuating mechanism ⇒ [page 169](#) .
- Remove the door window glass ⇒ [page 163](#) .
- Remove the rear door fixed door ⇒ [page 171](#) .
- Remove glass internal and external packings.
- Remove the door glass groove.
- Remove the outer handle ⇒ [page 115](#) .
- Remove the lock pin rod and reversing lever.
- Remove the lock ⇒ [page 118](#) .
- Remove the door limiter ⇒ [page 110](#) .
- Disconnect the protection gaiter and remove the door interior harness.

1.5.2 Assembly

- Install in reverse order.

1.6 Rear door - replace

1.6.1 Removal

- Disassemble the door ⇒ [page 109](#) .
- Remove the door ⇒ [page 105](#) .

1.6.2 Installation

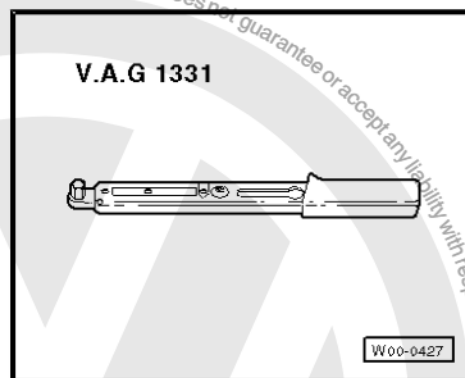
- Apply seal / insulation to the door ⇒ Chemical Materials Manual .
- Install the door noise insulation ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Paint the door ⇒ Painting Manual .
- Install the door ⇒ [page 105](#) .
- Apply anti-corrosion fluid ⇒ Painting Manual .
- Assemble the door ⇒ [page 109](#) .

1.7 Door stopper - adjust

Special tools and workshop equipment required



- ♦ "Torque wrench - 5 to 50 Nm (socket 1/2")" -VAG 1331-



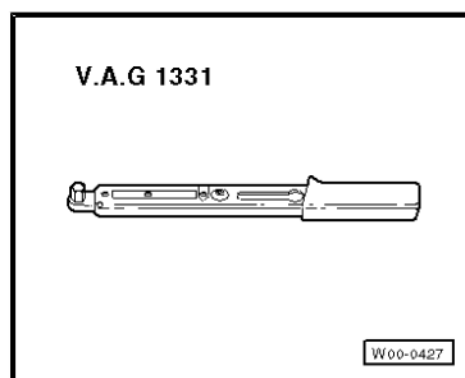
1.7.1 Adjusting

- Loosen the stopper attaching screws.
- Temporarily fit the stopper and position the screws .
- Close the door ensuring the perfect alignment with the body, based on specific gap dimensions ⇒ Body - Repair; Rep. Gr. 00 ; Technical data - Body clearance measures .
- Tighten the stopper definitively with:
 - 20 Nm (T45)
 - (up from model-year 2011) - 20 Nm (multitoothed)

1.8 Door limiter - remove and install

Special tools and workshop equipment required

- ♦ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

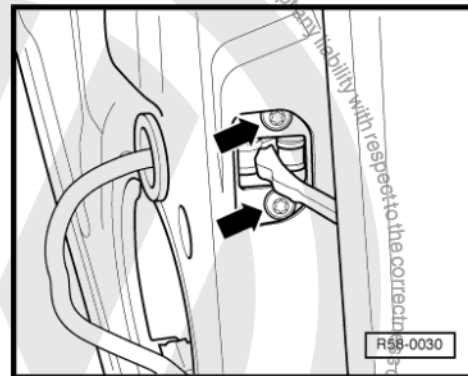


1.8.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove the door sealing membrane ⇒ [page 128](#) .
- Remove the B-pillar limiter fixing screw (T-40).



- Remove screws -arrows- that attach the door limiter (T-30).
- Remove the limiter from the inside part of the door.



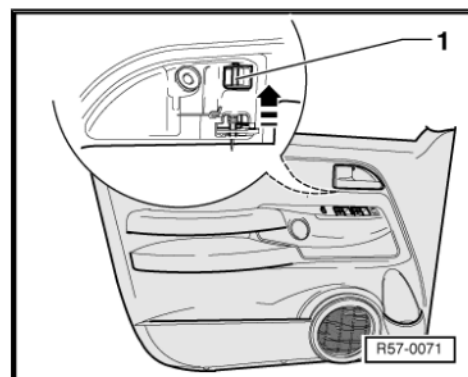
1.8.2 Installation

- Install in reverse order as of the removal.

1.9 Inner handle (up to model-year 2010) - replace

1.9.1 Removal

- Remove the door lining ⇒ Body - internal mountings Rep. Gr. 70 ; Lining / Insulation .
- Disengage the lock actuating cable.
- Move the joint pins -1- from the handle in the direction of the arrow until stopping, at the door lining.
- Open internal handle, detach spring and pull it out of door trim.



1.9.2 Installation

- Install in reverse order as of the removal.

1.10 Rear door outer handle and lock (up to model-year 2010) - assembly over-view

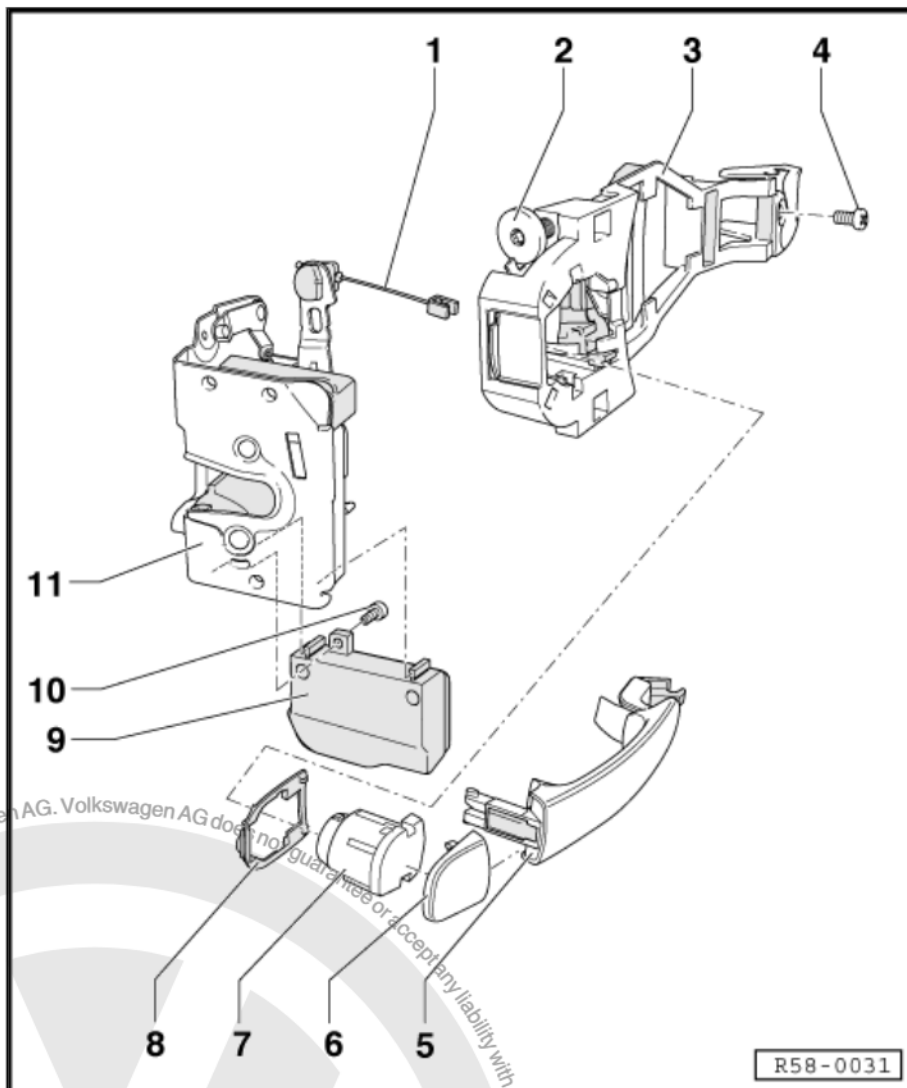


1 - ?Operation cable

- ☐ Lock release.

2 - Torx screw

- ☐ Loosen with the Torque wrench -T10072-
- ☐ When loosening the screw, the lock cylinder case attachment is unlocked -7-, and may be pressed outwards the outer handle support -3-
- ☐ The screw -2- cannot be tightened without the lock cylinder case being inserted. Locking ring may fall off into the door.



-Handle support in Zamak, 4.5 Nm-

- ☐ -Handle support in PA6 30 GF, 2.5 Nm-

3 - Outer handle support

- ☐ Remove lock cylinder housing
- ☐ Remove door handle
- ☐ Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation
- ☐ Remove the sealing membrane on the door handle area.
- ☐ Loosen the screw -4-, push the outer handle support backwards slightly and remove it from the door

4 - Screw

5 - Door handle

- ☐ Remove and install ⇒ [page 115](#)
- ☐ Cover cap

6 - Cover cap

7 - Cylinder case without lock cylinder

- ☐ Remove and install ⇒ [page 114](#)

8 - Bracket

9 - Rear left/right central door locking system -V307/V308-

- ☐ Replace ⇒ [page 127](#)



10 - Screw

11 - Door lock

- ☐ Remove and install ➔ [page 118](#)

1.11 Rear door outer handle and lock (up from model-year 2011) - assembly overview

1 - Outer handle support

- ☐ Remove lock cylinder housing
- ☐ Remove door handle
- ☐ Remove the door lining
➔ Body - internal mountings; Rep. Gr. 70; Lining / Insulation
- ☐ Remove the sealing membrane on the door handle area
- ☐ Loosen the screw -4-, push the outer handle support backwards slightly and remove it from the door

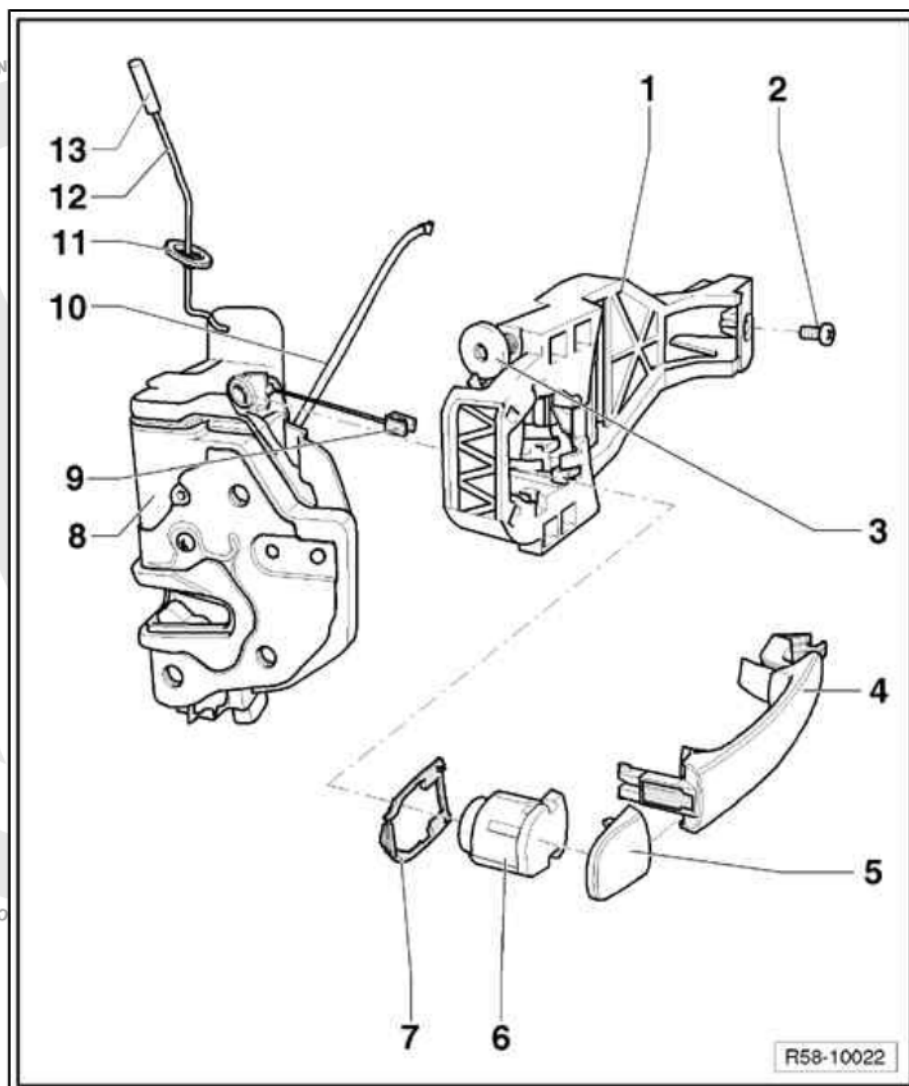
2 - Screw

- ☐ 2.5 Nm

3 - Torx screw

- ☐ Loosen with the Torque wrench -T10072-
- ☐ When loosening the screw, the lock cylinder case attachment is unlocked -7-, and may be pressed outwards the outer handle support
- ☐ The screw -2- cannot be tightened without the lock cylinder case being inserted. Locking ring may fall off into the door.

☐



-Handle support in Zamak, 4.5 Nm-

- ☐ -Handle support in PA6 30 GF, 2.5 Nm-

4 - Door handle

- ☐ Remove and install ➔ [page 116](#)
- ☐ Cover cap

5 - Cover cap

6 - Cylinder case without lock cylinder

- ☐ Remove and install ➔ [page 114](#)

7 - Sealing

8 - Door lock

- ☐ Remove and install ➔ [page 122](#)



9 - ?Operation cable

- ☐ Lock release

10 - Lock operating cable

- ☐ Remove and install ⇒ [page 126](#)

11 - Eyelet

12 - Locking rod

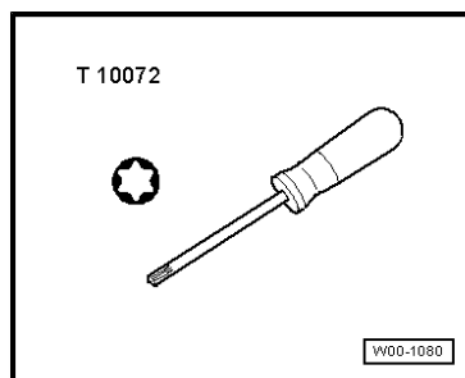
13 - Locking button

- ☐ Installed on the lock rod until the stopper
- ☐ Position concerning the door lining ⇒ [page 127](#)

1.12 Cylinder housing without cylinder lock - remove and install

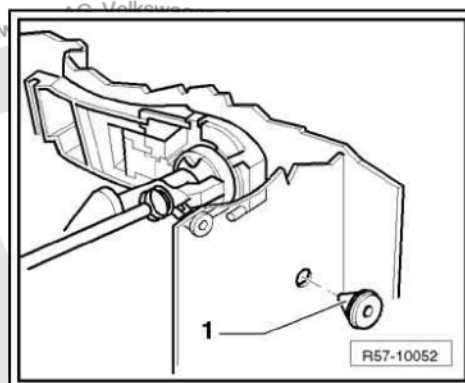
Special tools and workshop equipment required

- ◆ Torque wrench -T10072-



Removal

- Disengage the plug -1-.





- Pull and hold the door handle -1-. Loosen the screw -3- with torque wrench -T10072- and press it simultaneously in the direction of the outer handle. This releases the lock in the lock cylinder housing.



Note

If screw is excessively loosened the lock ring may detach from the outer handle support as a result, and fall off into the door.

- Pull the lock cylinder housing -2- outwards the outer handle support, at right angle concerning the door handle.

Installation

Installation happens in reverse order, ensure the following:

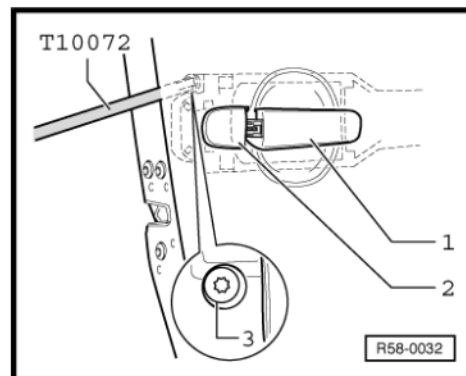
- Install the lock cylinder housing to the outer handle support at right angle.
- Tighten the screw at the outer handle support with the Torque wrench -T10072- .

The door handle is fitted again to the lock cylinder housing when there is an audible click.



Note

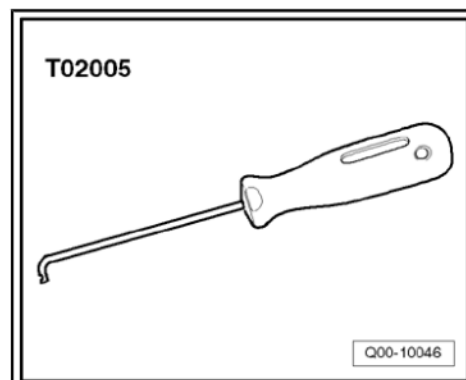
When assembling, press the door handle and lock cylinder housing towards the door plate.



1.13 Door outer handle (up to model-year 2010) - remove and install

Special tools and workshop equipment required

- ◆ Assembly tool -T 10389- or Assembly tool -T 02005-



1.13.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Unglue door sealing membrane at the upper portion.

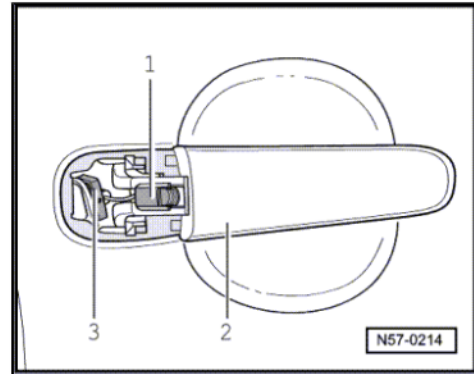


- Remove the housing of the cylinder without lock cylinder.
- Disengage the clip -1- from the door handle -2-.
- Disengage the door handle -2- from the door panel.
- Remove the door lock ➔ [page 118](#) .



Note

The removal of the door lock is required for repositioning the lock actuating spring.



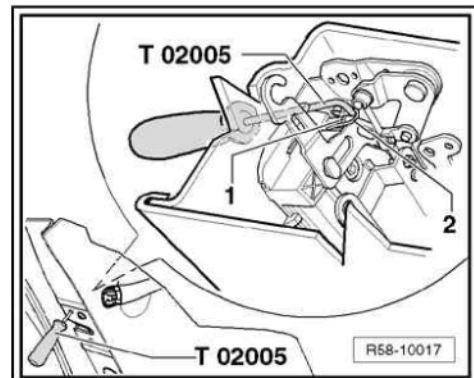
1.13.2 Installation



Note

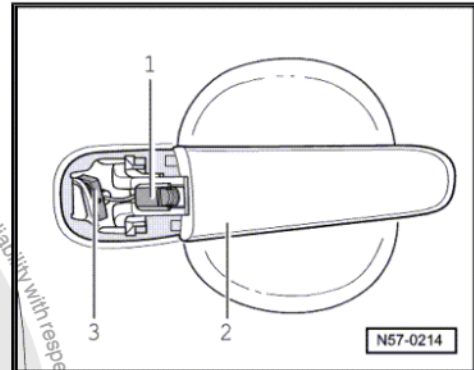
Before beginning the installation, the spring -2- should be positioned in order the handle does not have a clearance when actuated. For this, follow the instructions below.

- Remove the lock attaching the screw where the tool will be inserted assembly tool -T 10389- or assembly tool -T 02005-
- Insert the assembly tool -T 10389- or assembly tool -T 02005- to the lock attaching hole.
- In order to view it better, illuminate the door inner portion with a drop light.
- Fit the spring -2- to the actuating lever -1-.
- Fit the door handle -2- to the door panel.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle.



Note

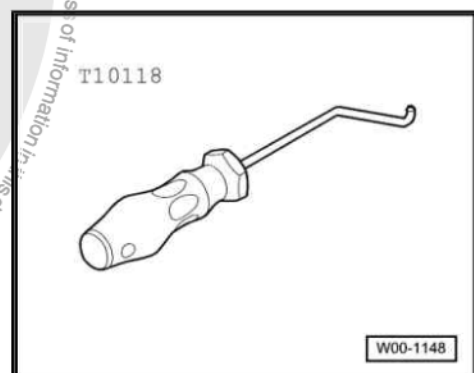
During the clip assembly, the latch actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.



1.14 Door outer handle (up from model-year 2011) - remove and install

Special tools and workshop equipment required

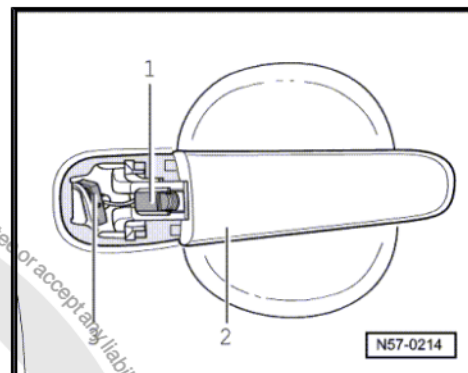
- ◆ Hook -T10118-



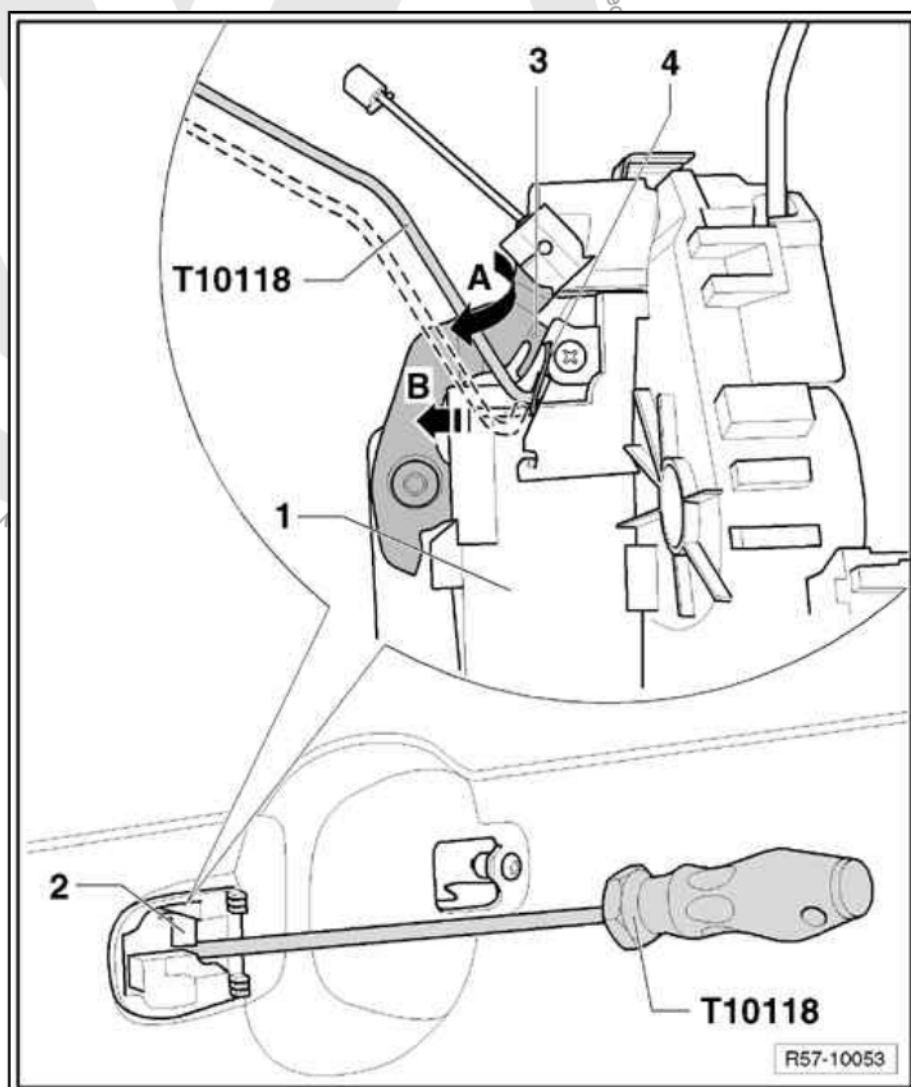


1.14.1 Removal

- Remove the lock cylinder housing.
- Disengage the clip -1- from the door handle -2-.
- Disengage the door handle -2- from the door panel.



1.14.2 Installation



- Through the door panel opening -1-, Insert the hook -T 10118- to the door.
- In order to a better visibility, illuminate the door inner portion with a drop light.
- Turn the hook -T 10118- in the spring -4- -arrow A-.

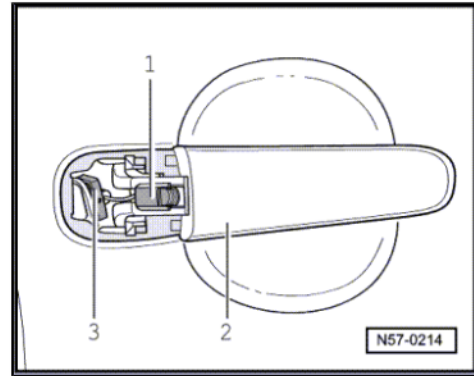


- Slowly pull the hook -T 10118- in the direction of -arrow B-, attach the spring to the lever -3- fitted to door lock -1-.
- Fit the door handle -2- to the door panel.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle.



Note

During the clip assembly, the latch actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.



- Install the lock cylinder housing.

1.15 Exterior door handle - replace

1.15.1 Removal

- Remove the outer handle ⇒ [page 115](#) .

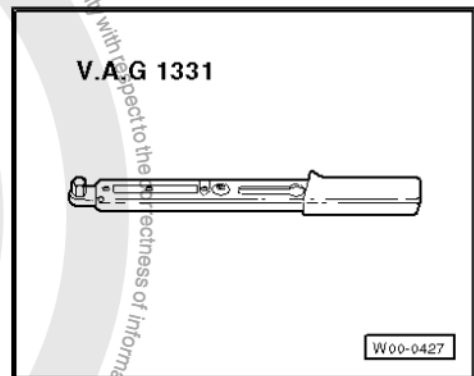
1.15.2 Installation

- Paint the handle ⇒ Painting Manual. .
- Install in reverse order as of the removal.

1.16 Rear door lock (up to model-year 2010) - remove and install

Special tools and workshop equipment required

- ♦ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-

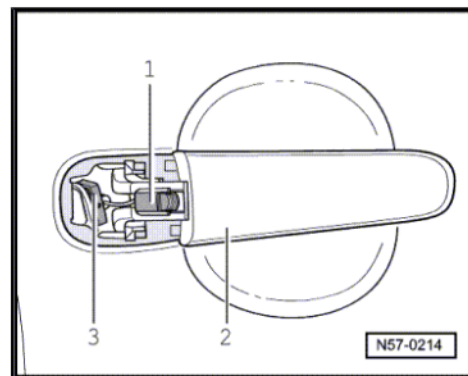


1.16.1 Removal

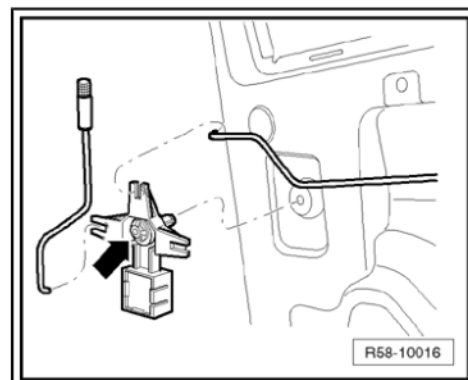
- Remove the rear door lining with the window glass lifted ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Unglue the door sealing membrane at the upper portion.

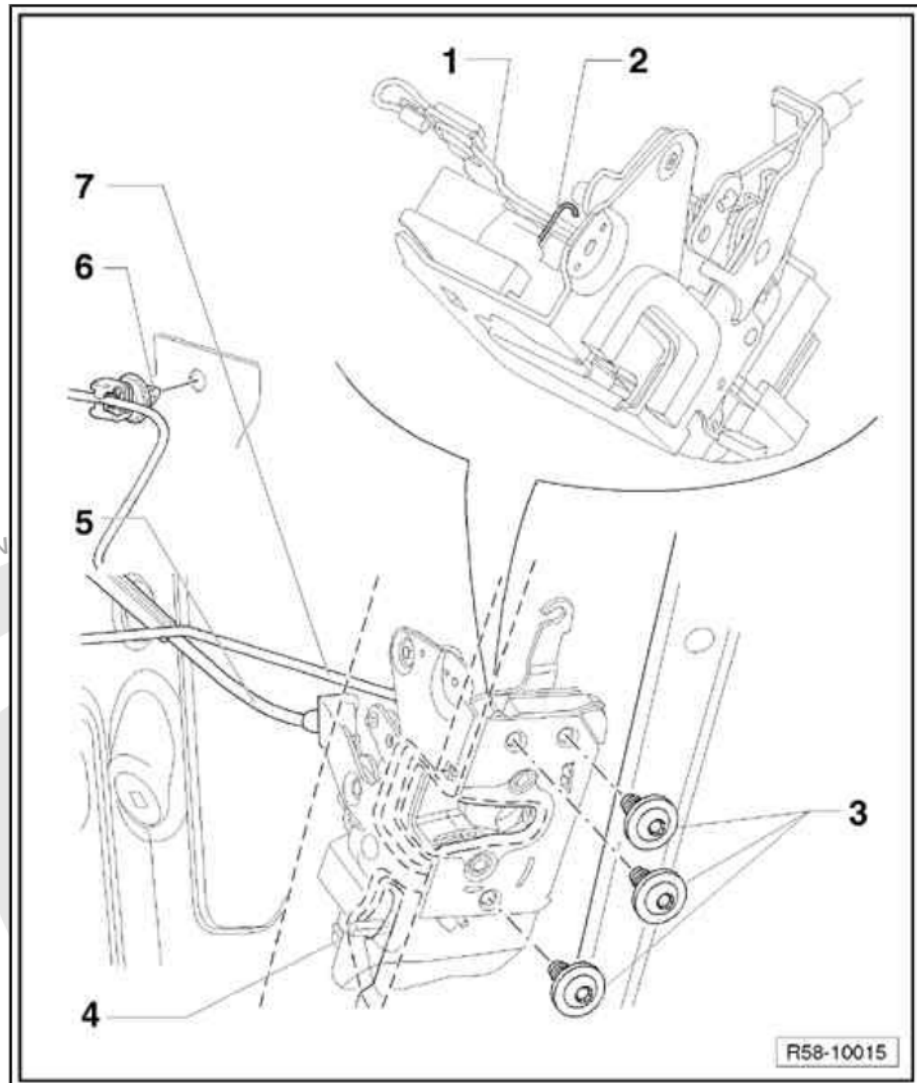


- Remove the outer handle housing ⇒ [page 114](#) .



- Disengage the clip -1- from the door handle -2-.
- Push the pin -arrow- and remove the reversing lever.

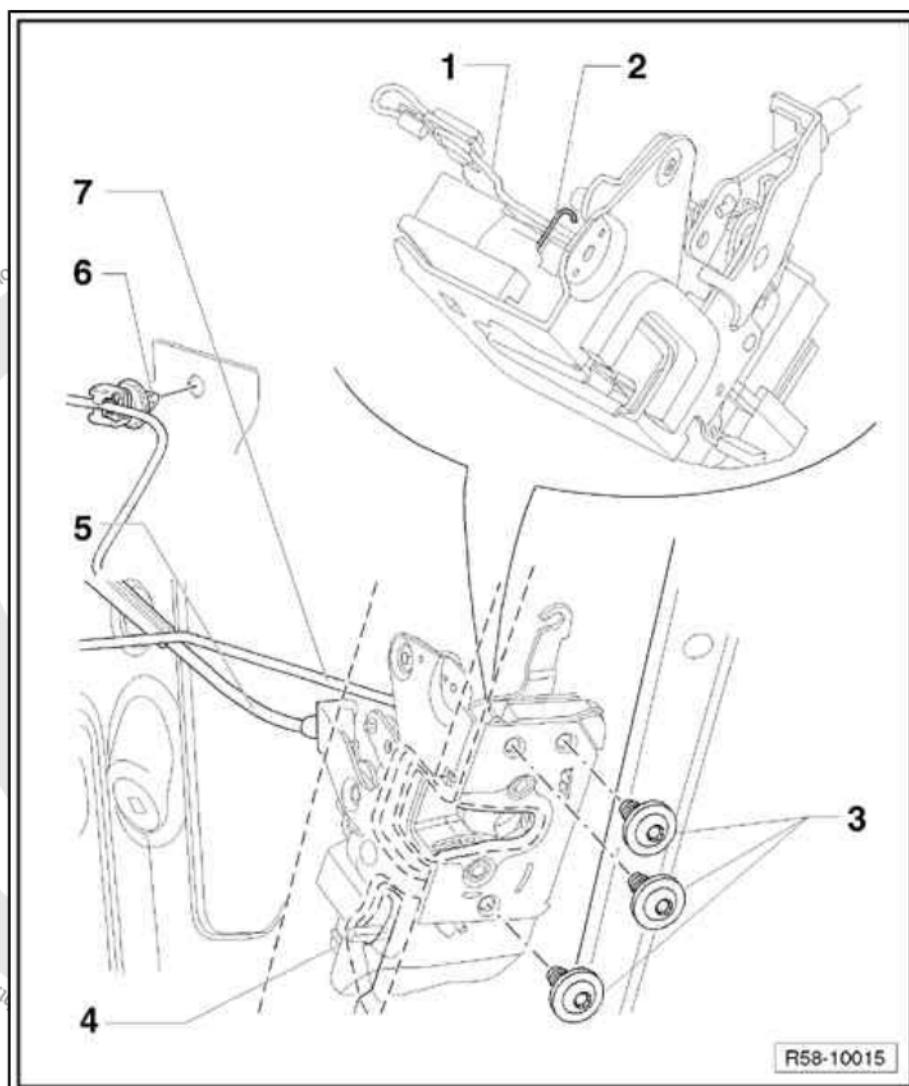




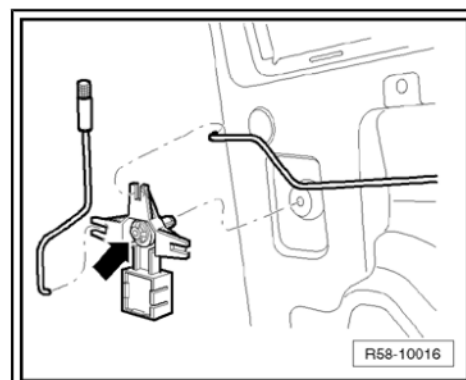
- Disengage the clip -6- of the operation rod-7-.
- Disconnect the connector of the -4- of Rear left/right central door locking system -V307/V308- .
- Remove the attaching screws -3- from the door lock and remove the lock through the assembly opening.



1.16.2 Installation



- Fit the spring -1- to the lock actuating lever -2-.
- Position the lock and install the attaching screws -3- of the door lock with a torque of 4 Nm.
- Engage the connector Rear left/right central door locking system -V307/V308- -4-.
- Install to the clip -6- of the lock operation rod-7-.





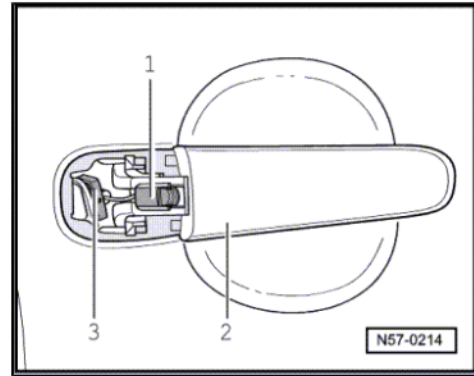
- Push the pin -arrow- and install the reversing lever.
- Pull the clip -1- inwards the sheet cutting and fit to the door handle -2-.



Note

During the clip assembly, the lock actuating lever -3- cannot be pulled and the door handle -2- should be pressed towards the door panel.

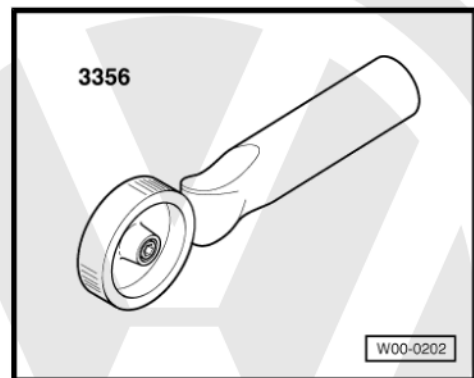
- Install the lock cylinder housing.
- Install the door sealing membrane, pressing it with the Press tool -3356- .
- Install the rear door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .



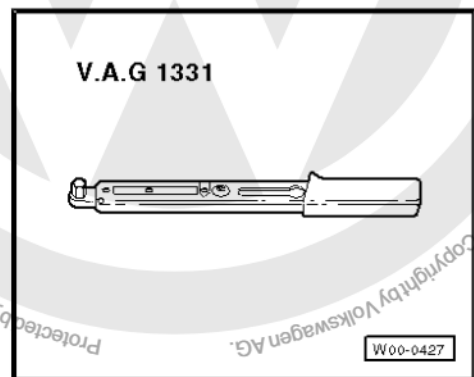
1.17 Rear door lock (up from model-year 2011) - remove and install

Special tools and workshop equipment required

- ◆ Press tool -3356-



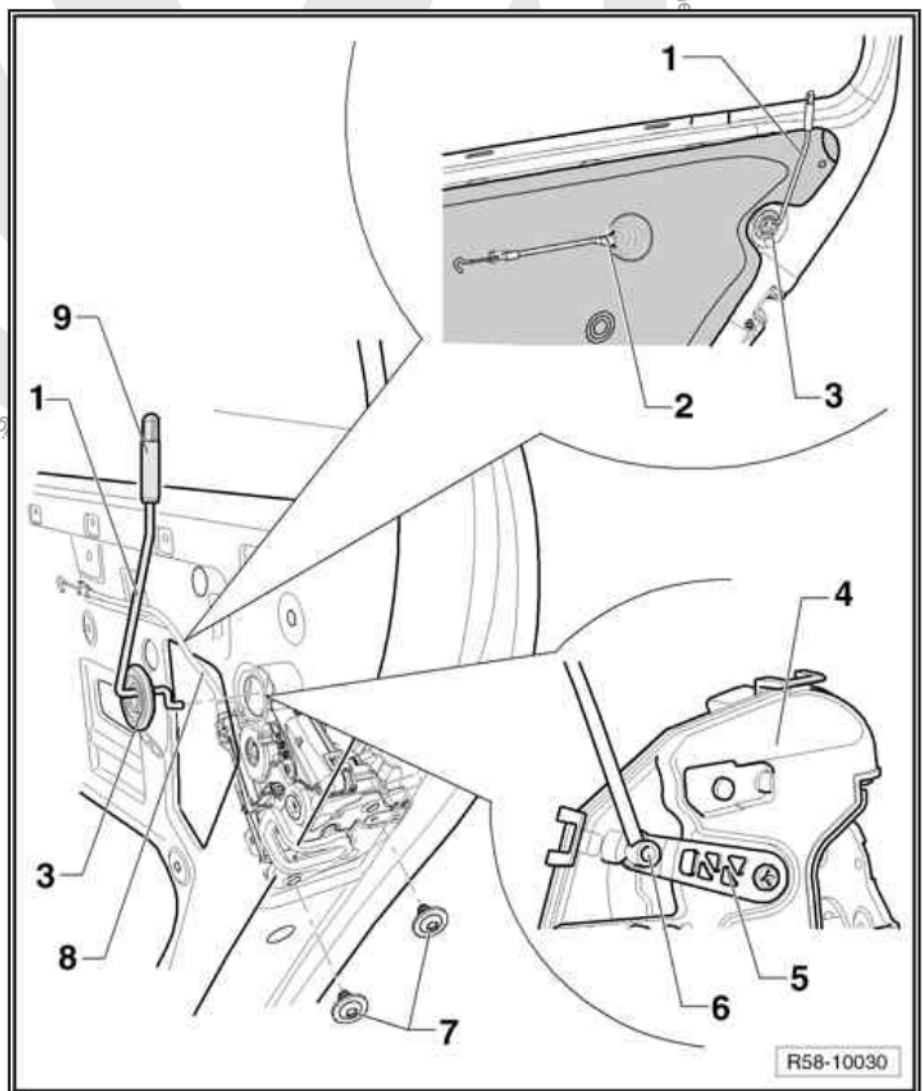
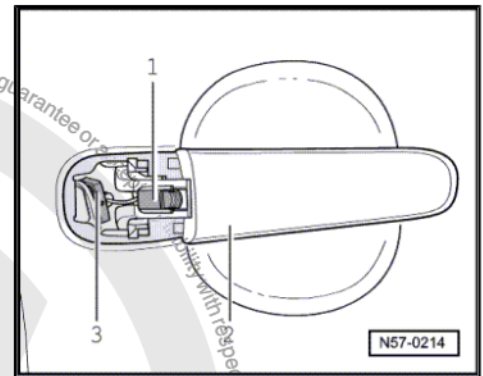
- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") - VAG 1331-





1.17.1 Removal

- Remove the lock cylinder housing.
- Disengage the clip -1- from the door handle -2-.
- Remove the rear door lining with the window glass lifted => Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .



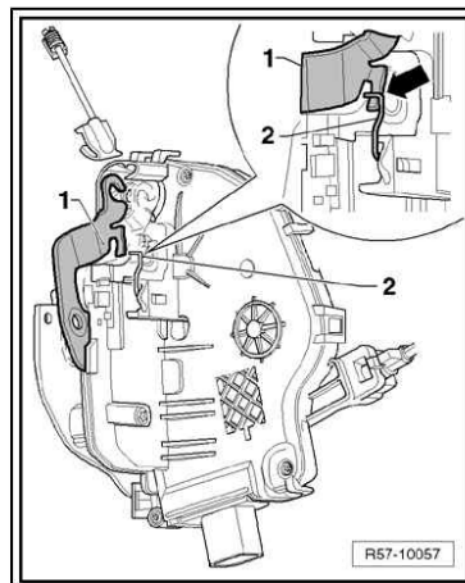
- Disengage the eyelet -3- from the door inner panel and disengage the rod -2- of the bushing -64- at the lever -5-.
- Unglue the adhesive tapes -2- that attach the sealing membrane to the lock actuating cable -8-.
- Unglue door sealing membrane for access to the lock.



- Disconnect the connector of the Rear left/right central door locking system -V307/V308- at the lock.
- Remove the attaching screws -7- (20 Nm) of the door lock -4- and remove the lock through the assembly opening.

1.17.2 Installation

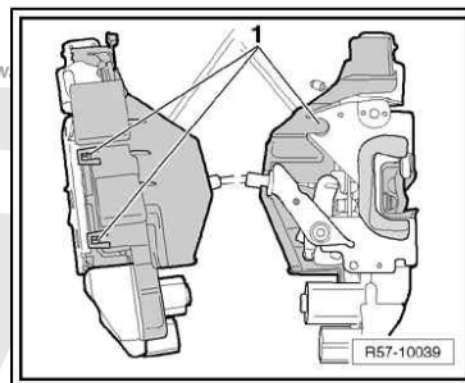
- Position the spring -2- under the lock actuating lever -1-, with the needle nose pliers.
- Install in reverse order as of the removal.



1.18 Rear door lock (up to model-year 2010) - replace

1.18.1 Removal

- Remove the lock ⇒ [page 118](#) .
- Unslot the locks -1- and separate the lock cover cap.
- Remove the lock actuating cable ⇒ [page 125](#) .
- Remove the inner handle actuating cable ⇒ [page 125](#) .
- Remove the bushings.
- Remove the Rear left/right central door locking system -V307/V308- ⇒ [page 127](#) , if any.



1.18.2 Install

- Install in reverse order as of the removal.

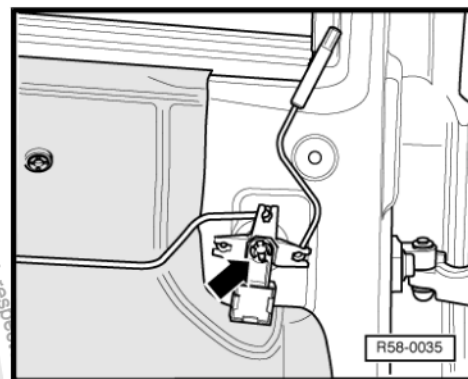
1.19 Reversing lever (up to model-year 2010) - replace

1.19.1 Removal

- Removing rear door trim ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- ?Disengage the operation rod from the reversing lever.
- Remove the lock pin rod from the lock.



- Remove the pin -arrow- from inversion lever -1-.
- Remove the reversing lever.



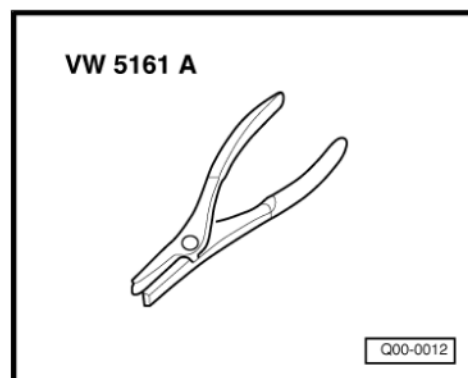
1.19.2 Installation

- Install in reverse order as of the removal.

1.20 Lock actuating cable (up to model-year 2010) - remove and install

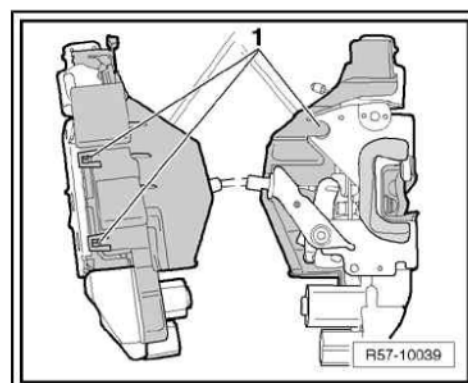
Special tools and workshop equipment required

Pliers -VW 5161A-



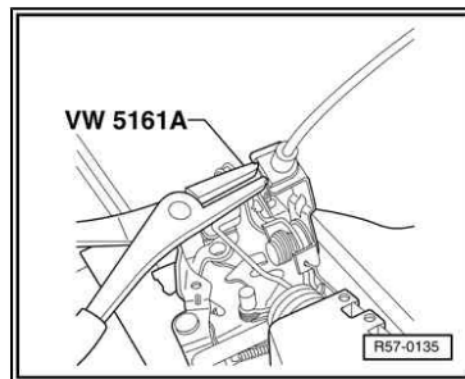
1.20.1 Removal

- Remove the door lock ⇒ [page 118](#) .
- Unslot the locks -1- and separate the lock cover cap.
- Unfit bushing cable end.



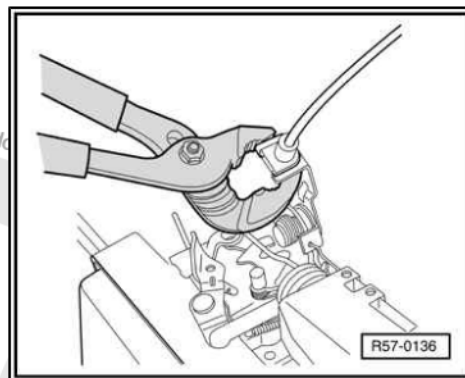


- Slightly open the cable fitting support with the Pliers -VW 5161A- .
- Unfit cable and remove it.



1.20.2 Installation

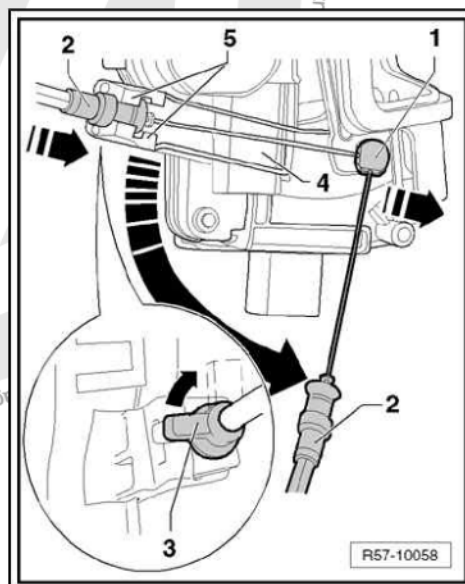
- Fit cable to lock mounting.
- Fit cable end to bushing.
- Slightly tighten cable fitting mounting with pliers.
- Install the door lock ➔ [page 118](#) .



1.21 Lock actuating cable (up from model-year 2011) - replace

1.21.1 Removal

- Remove the door lock.
- Turn the lock -3- of the cover cap 90°.
- Disengage the lock cable -5- and displace the cable -2- 90° in order the retainer of the cable -1- is aligned with the cutting of the lock lever and can be removed.
- Unfit cable and remove it.



1.21.2 Installation

- Install in reverse order as of the removal.

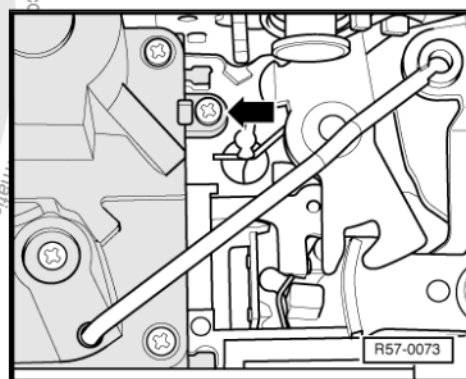
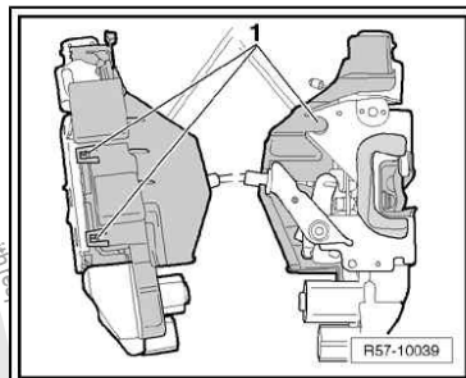


1.22 Rear left/right central door locking system -V307/V308- (up to model-year 2010) - replace

1.22.1 Removal

- Remove the door lock ⇒ [page 118](#) .

- Unslot the locks -1- and separate the lock cover cap.
- Remove the screw -arrow- which attaches the motor.
- Release the motor actuating rod and remove it.



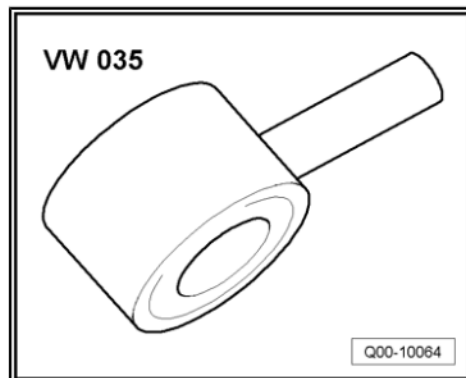
1.22.2 Installation

- Install in reverse order as of the removal.

1.23 Lock locking pin with locking rod (up from model-year 2011) - remove and install

Special tools and workshop equipment required

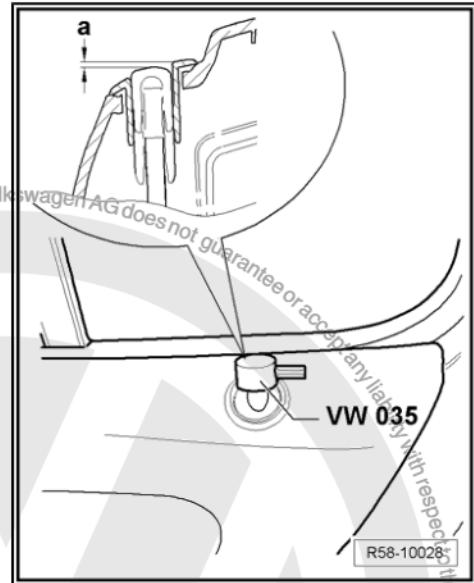
- ◆ Puller and Installer -VW 035-





1.23.1 Removal

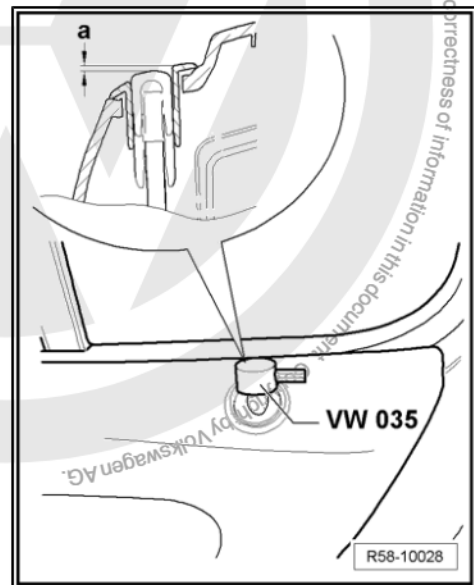
- With the locking pin completely raised, fit the Puller and Installer -VW 035- and release the pin.
- Remove the tool with the pin.



1.23.2 Installation

- Insert the pin to the puller and installer -VW 035- and screw the pin so that when locked the pin is positioned -nd- concerning the door lining.

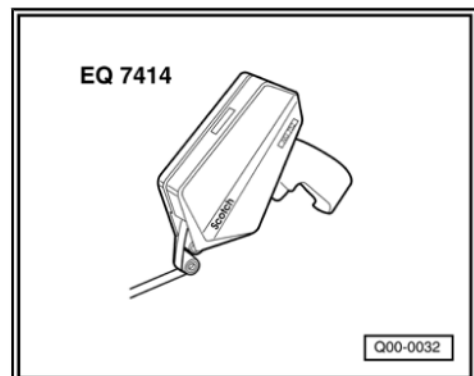
Measurement -nd- = 0 to - 1 mm.



1.24 Door sealing membrane - remove and install

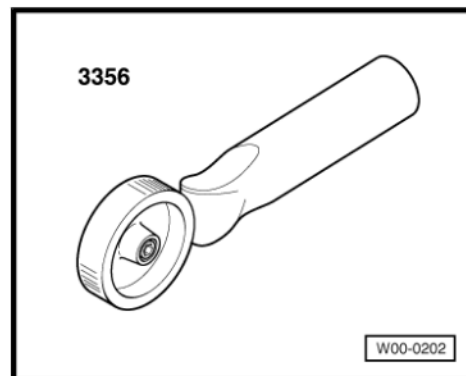
Special tools and workshop equipment required

- ◆ Transferable adhesive tape applicator -EQ 7414-

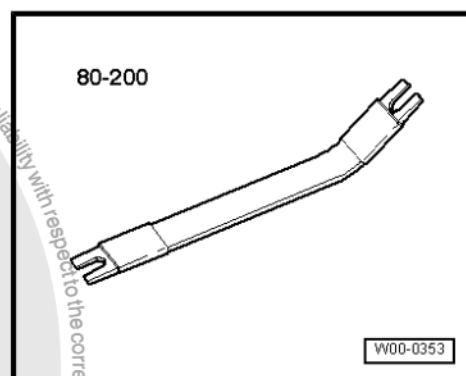




- ◆ Press tool -3356-



- ◆ Ejector lever -80-200-



24.1 Removal



Note

The membrane consists of an adhesive coating that guarantees removal up to 3 times without affecting the performance of the adhesive. If the adhesive layer is damaged, i.e., by removing it for the fourth time, install the membrane using transferable adhesive tape - Chemical Materials Manual, according to the information below.

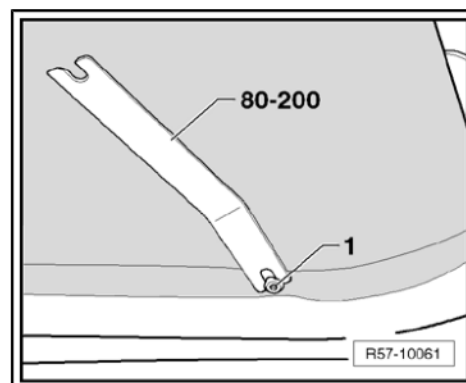
- Remove the door lining ➤ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove the loudspeaker, if any.
- Remove the adhesive tapes that fasten the membrane to the lock operation cables and harnesses.
- Remove the bushings -1- with ejector lever -80-200-
- Pull the sealing membrane off and remove it.



Note

Note on the own membrane the number of times that it was removed, 1st., 2nd. or 3rd. times.

- Remove adhesive residues on door internal panel.





1.24.2 Installation



Note

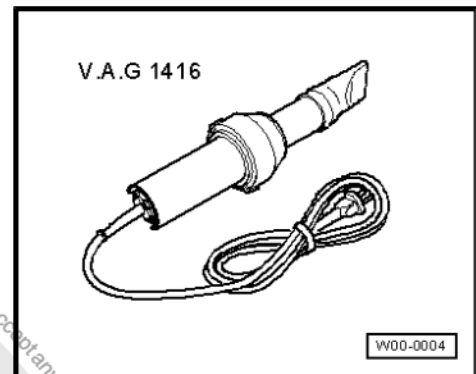
Apply transferable adhesive tape ⇒ Chemical Materials Manual to the door inner panel (gluing area of the membrane) with the Transferable adhesive tape applicator -EQ 7414- in case there is loss of membrane adherence.

- Apply transferable adhesive tape to the door inner panel (membrane adhesion area) with the Transferable adhesive tape applicator -EQ 7414- .
- Install the membrane by passing the cable and harnesses through the holes and stick it to the door inner panel.
- Press the sealing membrane of the door with the Press tool -3356- .
- Fix the sealing membrane to the door lock operation cable and harnesses.
- Install the lower attaching bushings of the door lining.
- Install the loudspeaker, if any.
- Install the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .

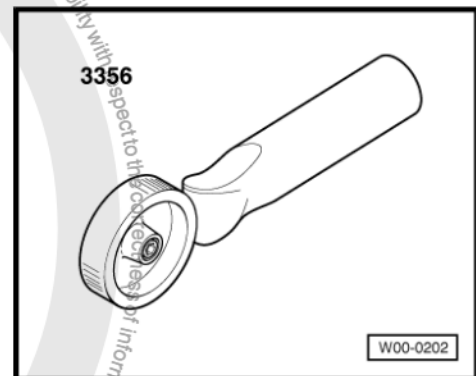
1.25 Door sealing trim - Assembly overview

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-

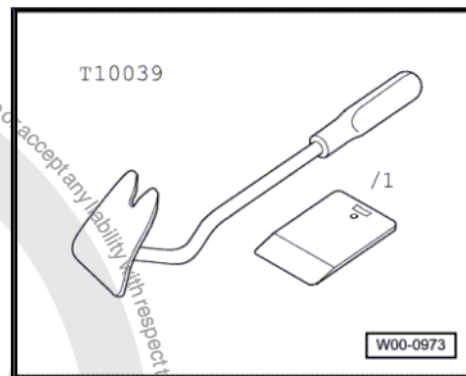


- ◆ Press tool -3356-





◆ Wedge -T 10039/1-



1 - Pin

- ☐ under pressure ► 02.05
- ☐ screwed 03.05 ►

2 - Door external packing

- ☐ self-adhesive
- ☐ remove and install
⇒ [page 132](#)

3 - Door inner packing

- ☐ It is covered on the lower portion by the door sill panel
- ☐ remove and install
⇒ [page 132](#)

4 - Clamp

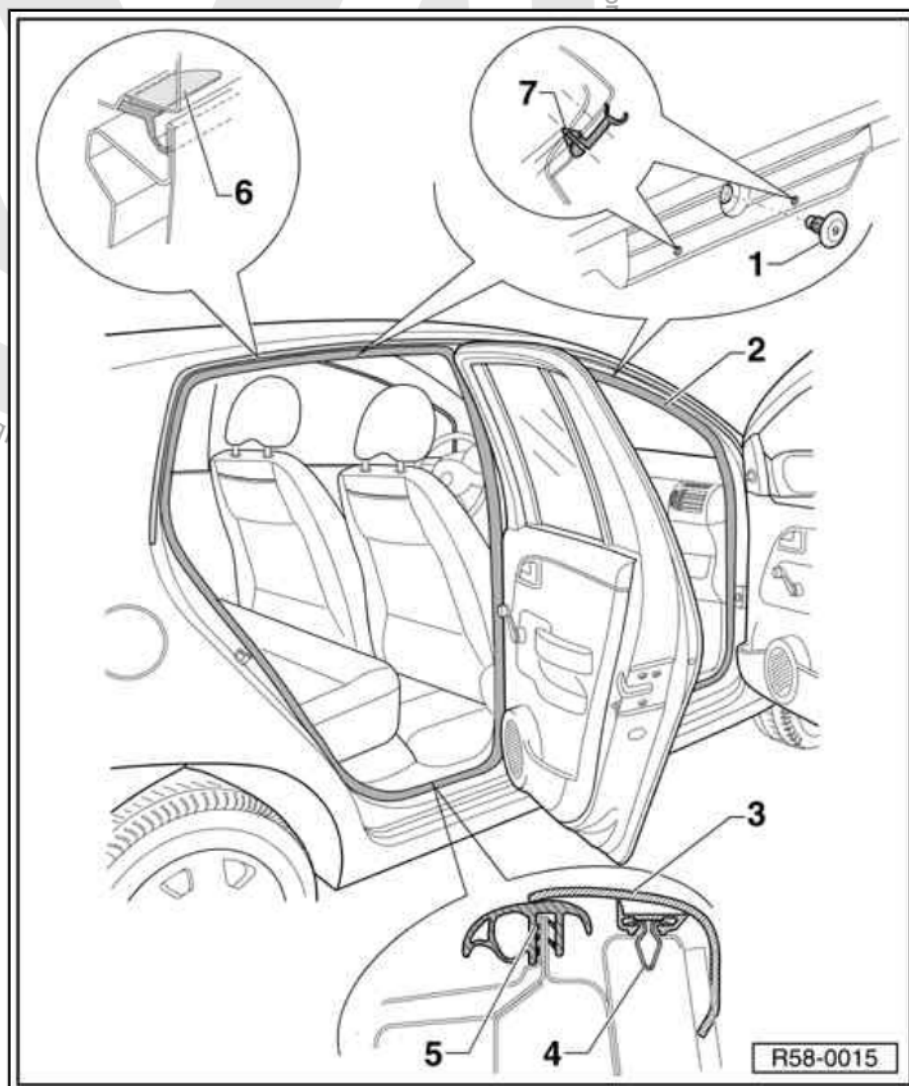
5 - Threshold sill

- ☐ remove and install ⇒
Body - internal mountings;
Rep. Gr. 68 ; Internal equipment

6 - Double faced adhesive tape

- ☐ when assembling new external trim, remove the double face tape liner.

7 - Fit the outer door weatherstrip (luggage compartment portion)





1.26 Door outer weatherstrip - Remove and install

1.26.1 Removal

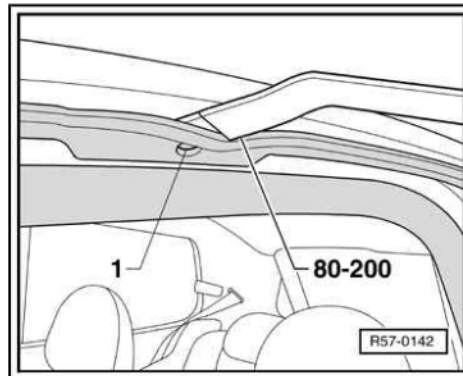
- Remove the attaching pins with the Ejector lever -80-200- .



Note

*Removable with the Ejector lever -80-200- only vehicles ➤ 02.05.
The pin the vehicles manufactured 03.05 ➤ is screwed.*

- Heat the area with the Blow pipe -VAG 1416- .
- Unglue the weatherstrip using the Wedge -T 10039/1- .



1.26.2 Installation

- Clean the door frame gluing area with the Adhesive remover -D 002 000 10- , and, then, apply the Cleaning solution -D 009 401 04- . Dry the area with a dry cloth.
- Heat the adhesive tape of the weatherstrip and door frame, at the assembly area with the Blow pipe -VAG 1416- at a temperature ranging from 30 to 40°C.
- Press the fitting -7- of the weatherstrip (over the front door and over the rear door) towards the door frame holes.
- Remove the double faced adhesive tape liner -6- and glue the weatherstrip to the pillar C area, centering the weatherstrip. Press the weatherstrip forcefully (more than 10 N) with the aid of the Press tool -3356- . Move the press tool always in the same direction.



Note

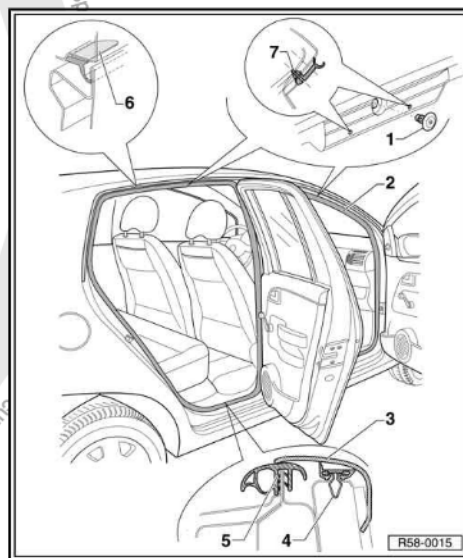
Avoid the rolling movement.

- Install the pins -1- .



Note

After the assembly, the door should remain open for a minimum period of 30 minutes so that the pressure of the door under the weatherstrip do not cause the premature ungluing of the weatherstrip.



1.27 Door inner weatherstrip - remove and install

1.27.1 Removal

- Remove the sill panel trim ➤ Body - internal mountings; Rep. Gr. 68 ; Internal equipment .
- Disengage the weatherstrip from the flange fit.

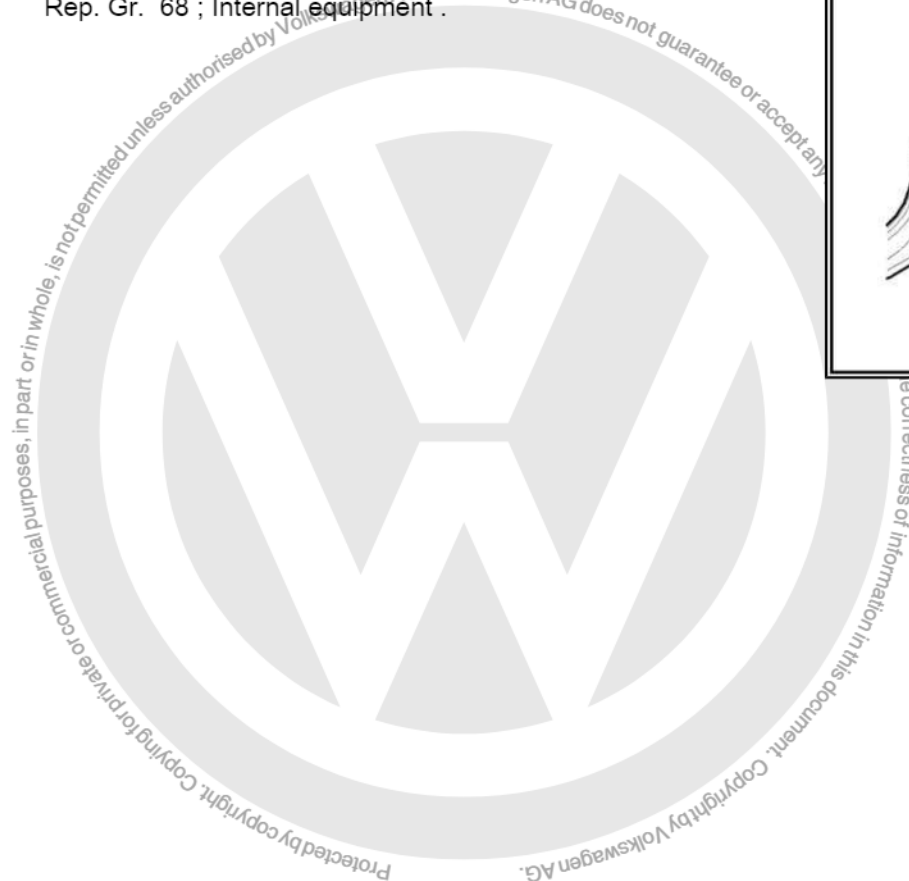
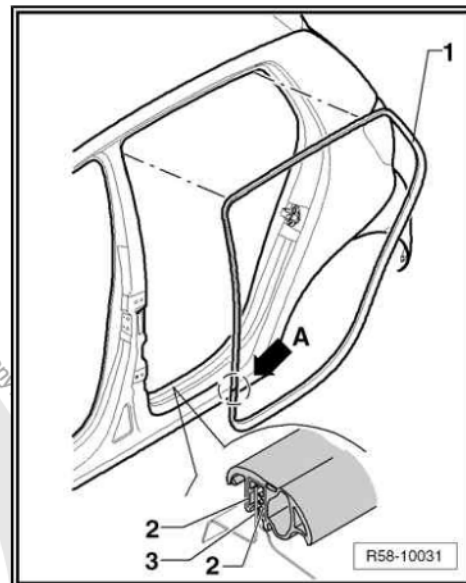


1.27.2 Installation



Note

- ◆ *At the weatherstrip -1- partially removed, the weatherstrip flanks should be compressed -2- before the assembly.*
- ◆ *The installation of the new part should be done by hitting slightly with a rubber hammer for the fit of the weatherstrip -1- to the flange -3-.*
- The vulcanized splice of the weatherstrip should be assembled on the pillar B, area under the door lower hinge arrow-A-
- Press the weatherstrip by hitting slightly with a rubber hammer.
- Install the door sill panel trim ⇒ Body - internal mountings; Rep. Gr. 68 ; Internal equipment .





63 – Bumpers

1 Front bumper

1.1 Front cover (up to model-year 2010) - assembly overview

1 - Front protection

- ☐ remove ⇒ [page 136](#)

2 - Adjustment nut

- ☐ ▶ 03.04
- ☐ 2 parts
- ☐ Adjust without any tension

3 - Lock nut

- ☐ ▶ 03.04
- ☐ 2 parts
- ☐ 6.5 Nm

4 - Front panel

5 - Screw

- ☐ 4 parts
- ☐ 6.5 Nm

6 - Coupling nut

- ☐ 6 parts

7 - Screw

- ☐ 6 parts
- ☐ 1.5 Nm

8 - Coupling nut

- ☐ 4 parts

9 - Screw

- ☐ 2 parts
- ☐ 6.5 Nm

10 - Screw

- ☐ 4 parts
- ☐ 1.5 Nm

11 - Screw

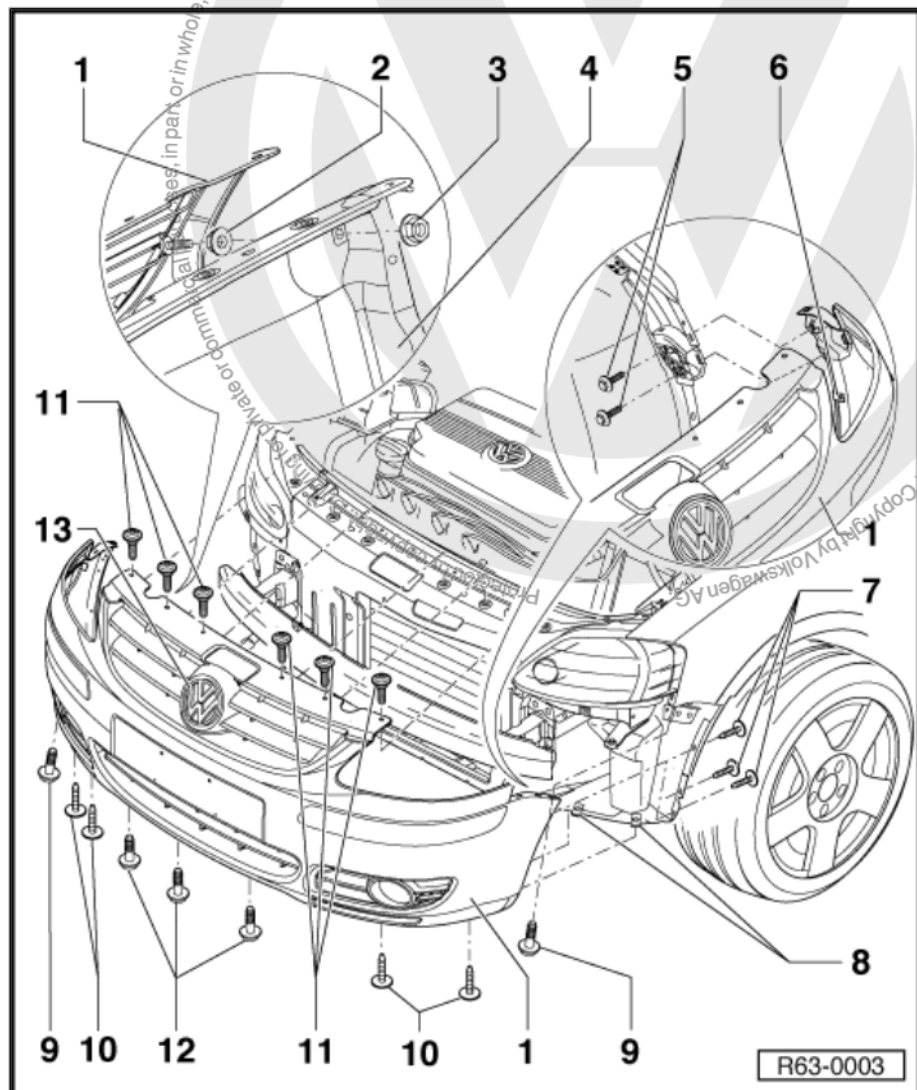
- ☐ 6 parts
- ☐ 6.5 Nm

12 - Screw

- ☐ 3 parts
- ☐ 6.5 Nm

13 - Front VW logo

- ☐ Fitted to bumper cover





1.2 Front cover (up from model-year 2011) - assembly overview

1 - Side guide

2 - Plastic bushing

3 - Screw

□ 2 parts

□ 1.5 Nm

4 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

5 - Screw

□ 6 parts

□ 3 Nm

6 - Screw

□ 6 parts

□ 1.5 Nm

7 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

8 - Screw

□ 4 parts

□ 1.5 Nm

9 - Screw

□ 3 parts

□ 3 Nm

10 - Front protection

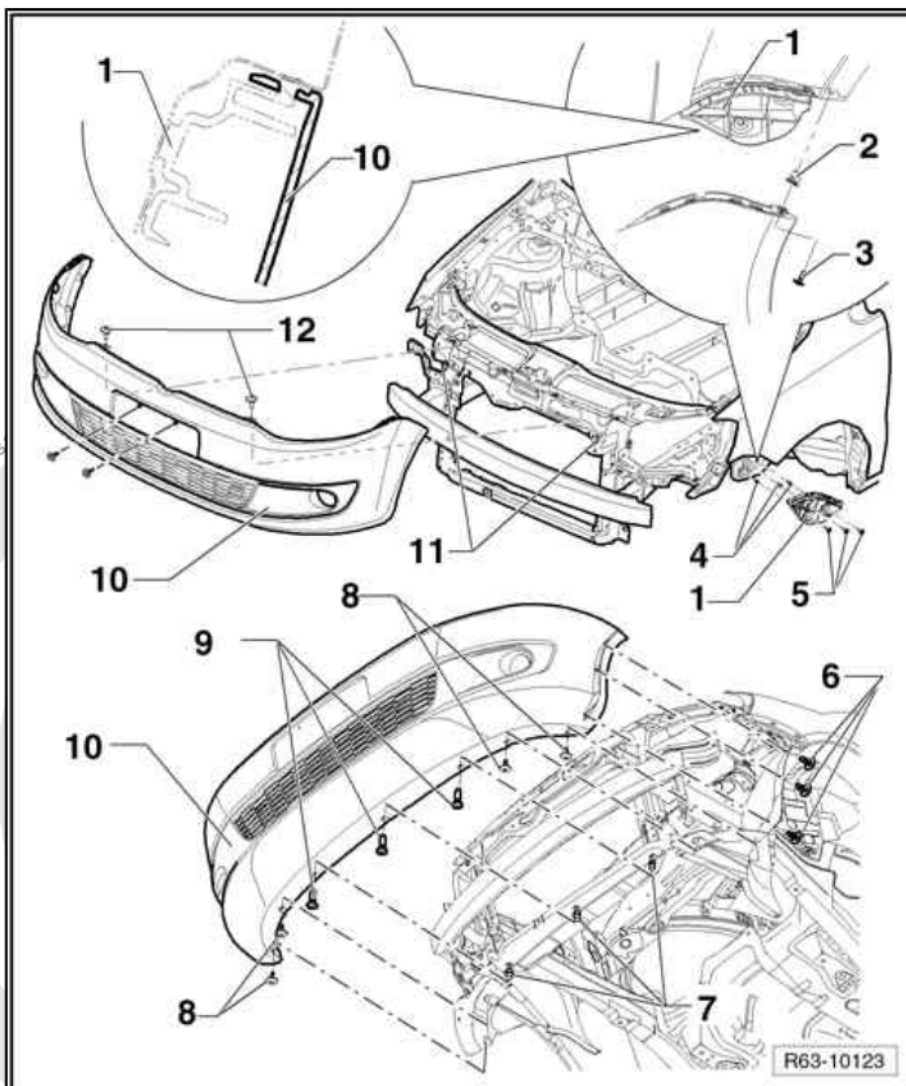
11 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

12 - Screw

□ 2 parts

□ 3 Nm





1.3 Front protection (only for Space Cross and Suran Cross) - Assembly over-view

1 - Side guide

2 - Plastic bushing

3 - Screw

□ 2 parts

□ 1.5 Nm

4 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

5 - Screw

□ 6 parts

□ 3 Nm

6 - Screw

□ 6 parts

□ 1.5 Nm

7 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

8 - Screw

□ 4 parts

□ 1.5 Nm

9 - Screw

□ 3 parts

□ 3 Nm

10 - Front protection

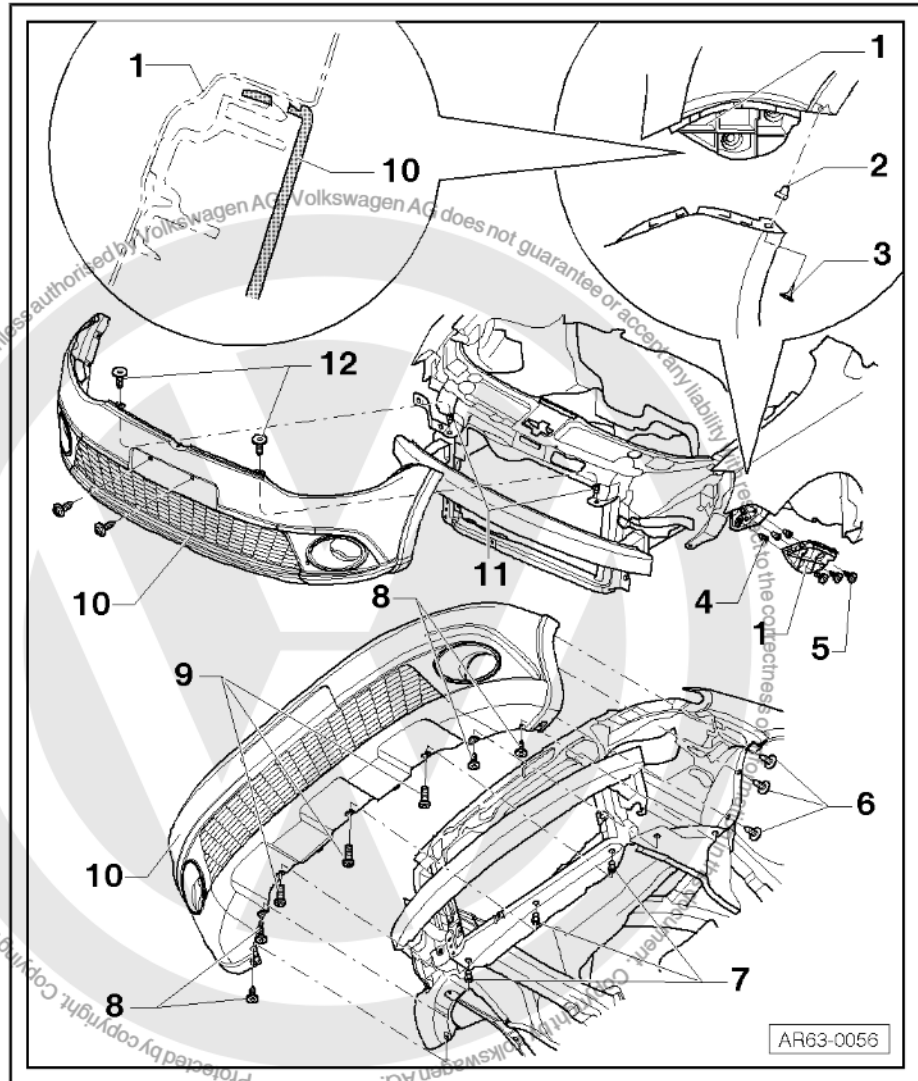
11 - Riveted nut

□ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

12 - Screw

□ 2 parts

□ 3 Nm

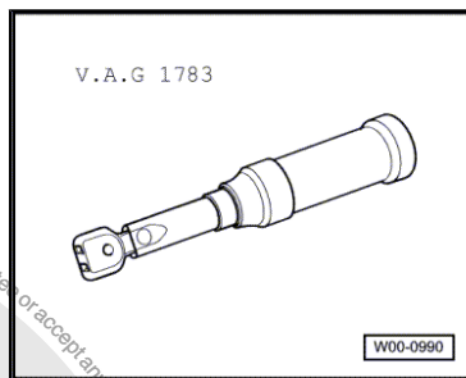


1.4 Front bumper cover (up to model-year 2010) - remove and install

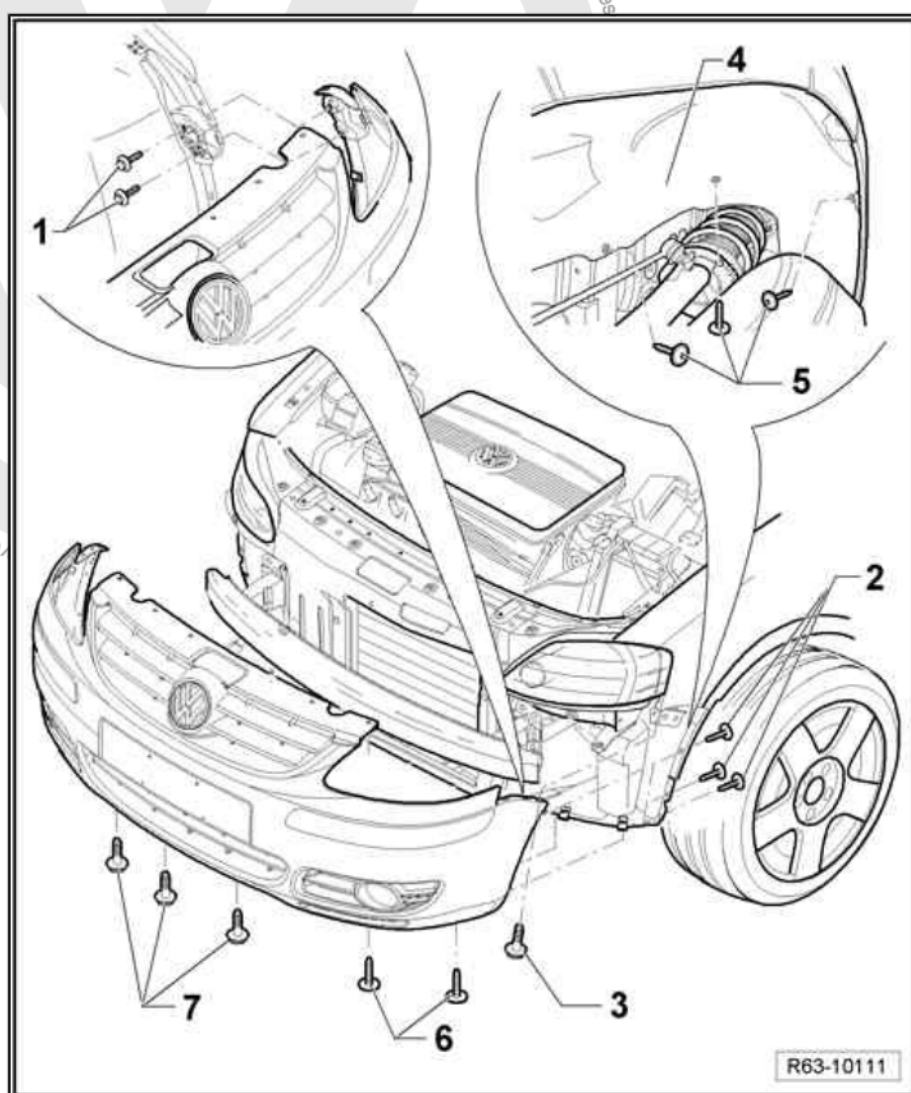
Special tools and workshop equipment required



- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



1.4.1 Removal



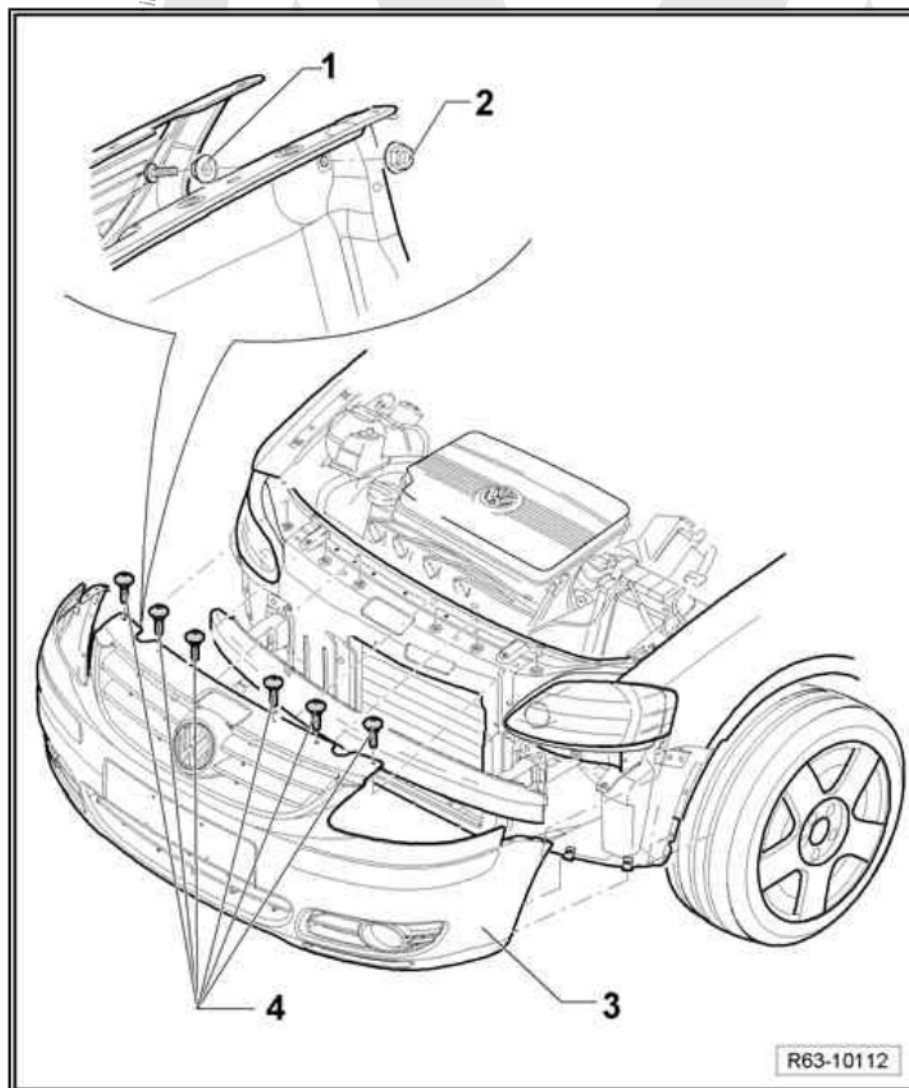
Note

For Crossfox version (➤ 2007), it is required the removal of the bolts -4- that attach the center cover member.

- Remove anti-noise ➤ [page 12](#) .



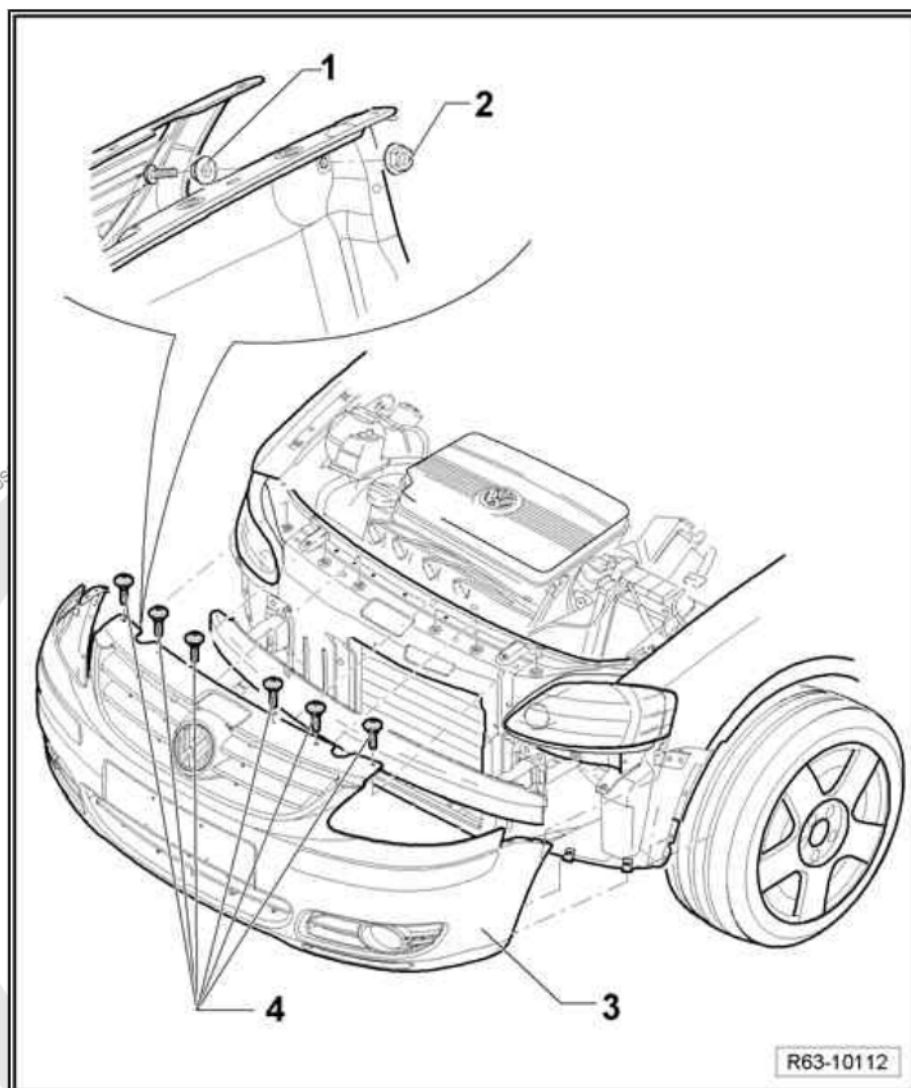
- Remove screws -2- and -5- (1.5 Nm) from the wheelhouse fenders.
- Remove screws -6- of the lower fastening of the wheelhouse fenders.
- Remove screws -3- and -7-.
- Displace the wheelhouse shield downwards and remove the screws -3- and -1-.



- Remove the lock nut -2- (► 03.04).
- Remove screws -4-.
- Remove the bumper cover carefully -3- forward.
- Disconnect the electric connectors (fog headlight, pencil beam - Crossfox).

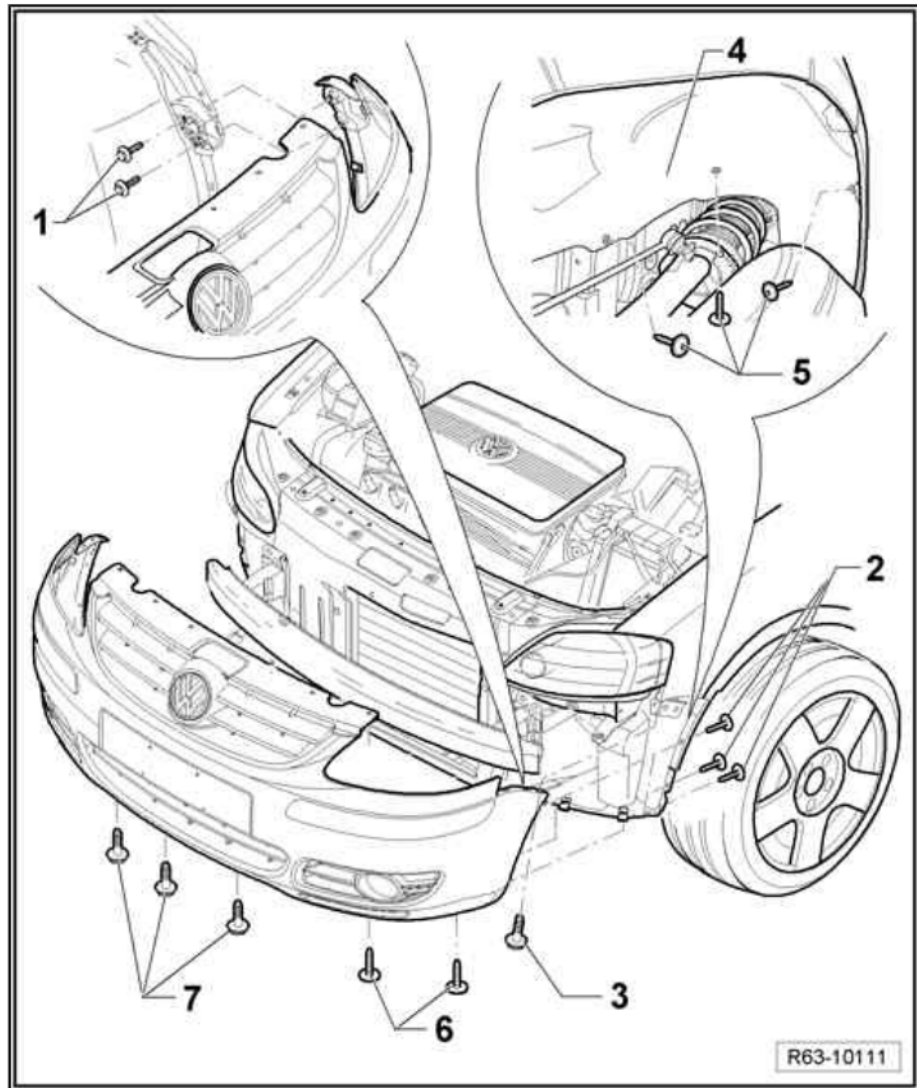
1.4.2 Installation

The installation is done in the reverse sequence. In this case, we should pay attention to the following:

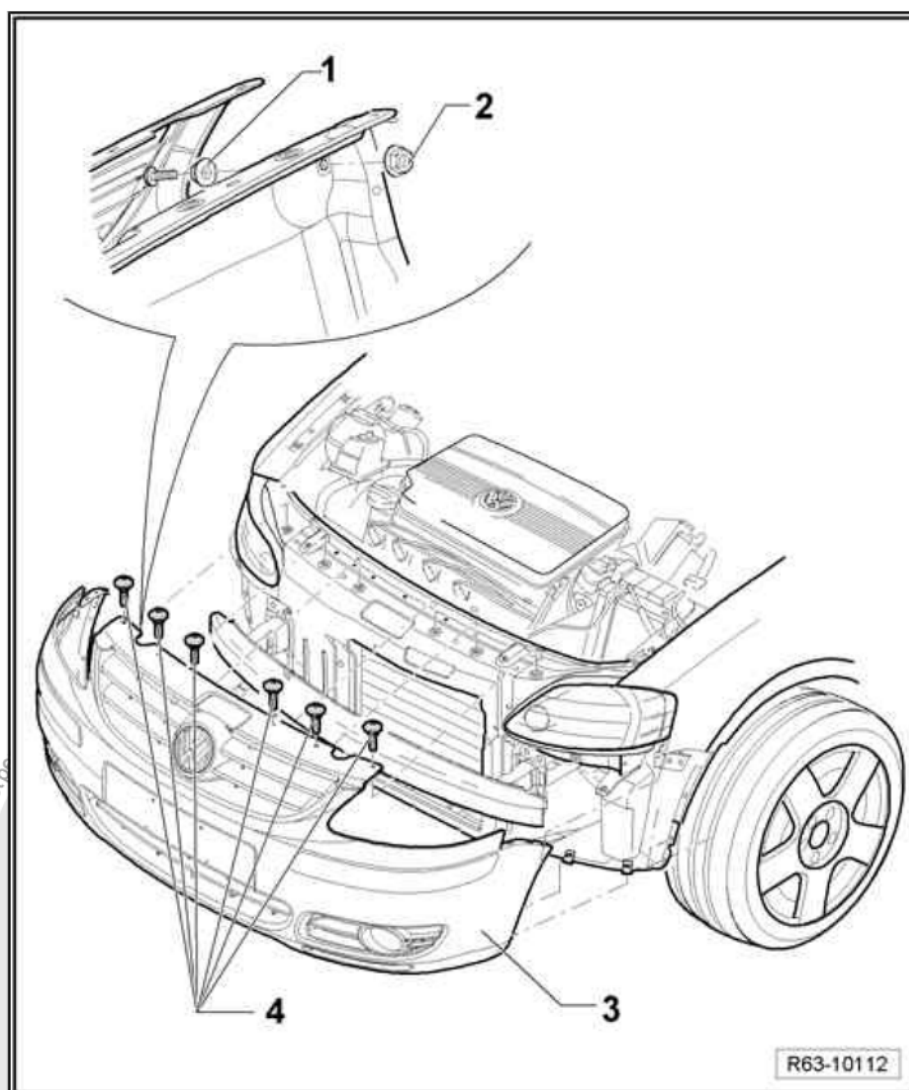


R63-10112

- Attach the adjusting nuts -1- and -2- (► 03.04) to the screw pins of the front shield.
- Install the front shield -3- and install the screws manually -4-.



- Install the screws manually -3- and -7-.



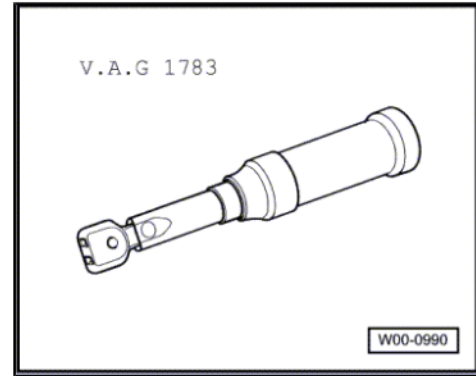
- Align the front shield -3- to the oblong holes with the headlight housing and the fender by using the adjusting nuts (► 03.04)
⇒ Body Repairs; Rep. Gr. 00 : Body clearance measurements .
- Turn the adjusting nuts without tensioning them (► 03.04) towards the front panel.
- Tighten all screws permanently.

1.5 Front bumper cover (up from model-year 2011 and/or Space Cross and Suran Cross) - remove and install

Special tools and workshop equipment required

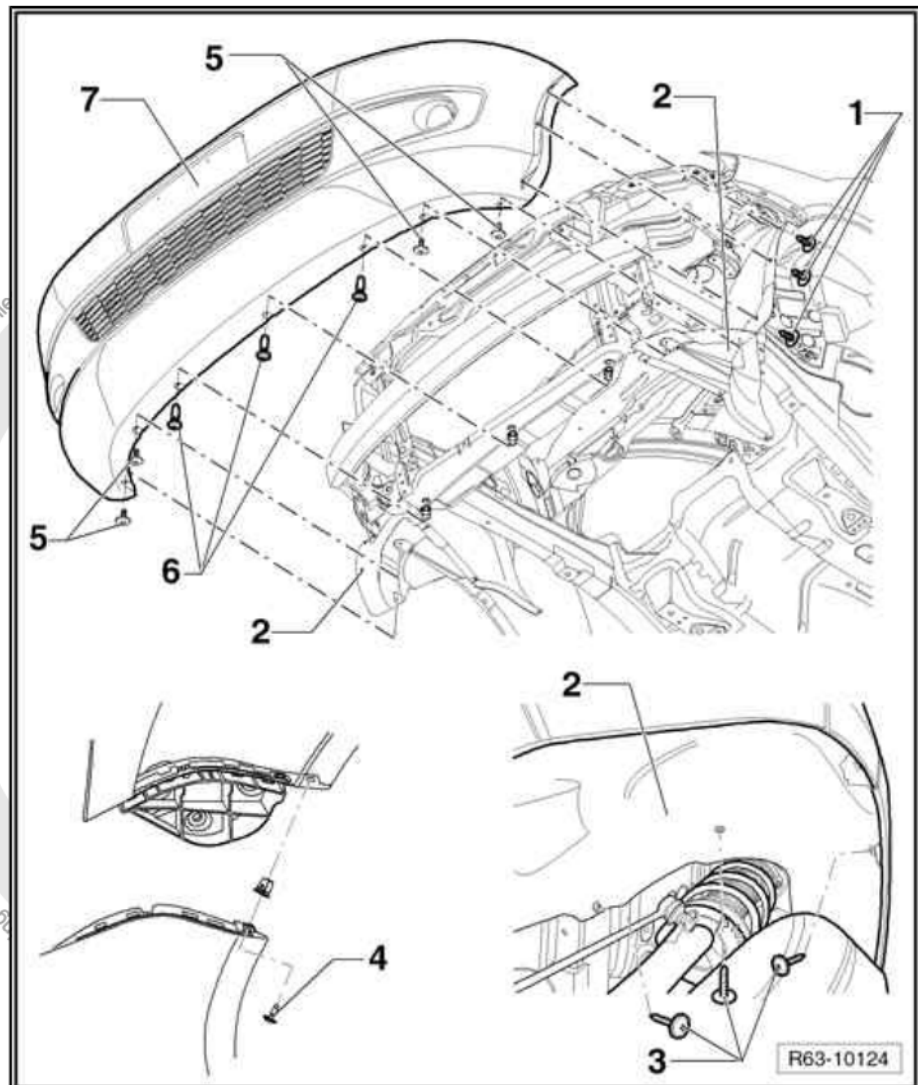


- ◆ Torque wrench 2 to 10 Nm -VAG 1783-



1.5.1 Removal

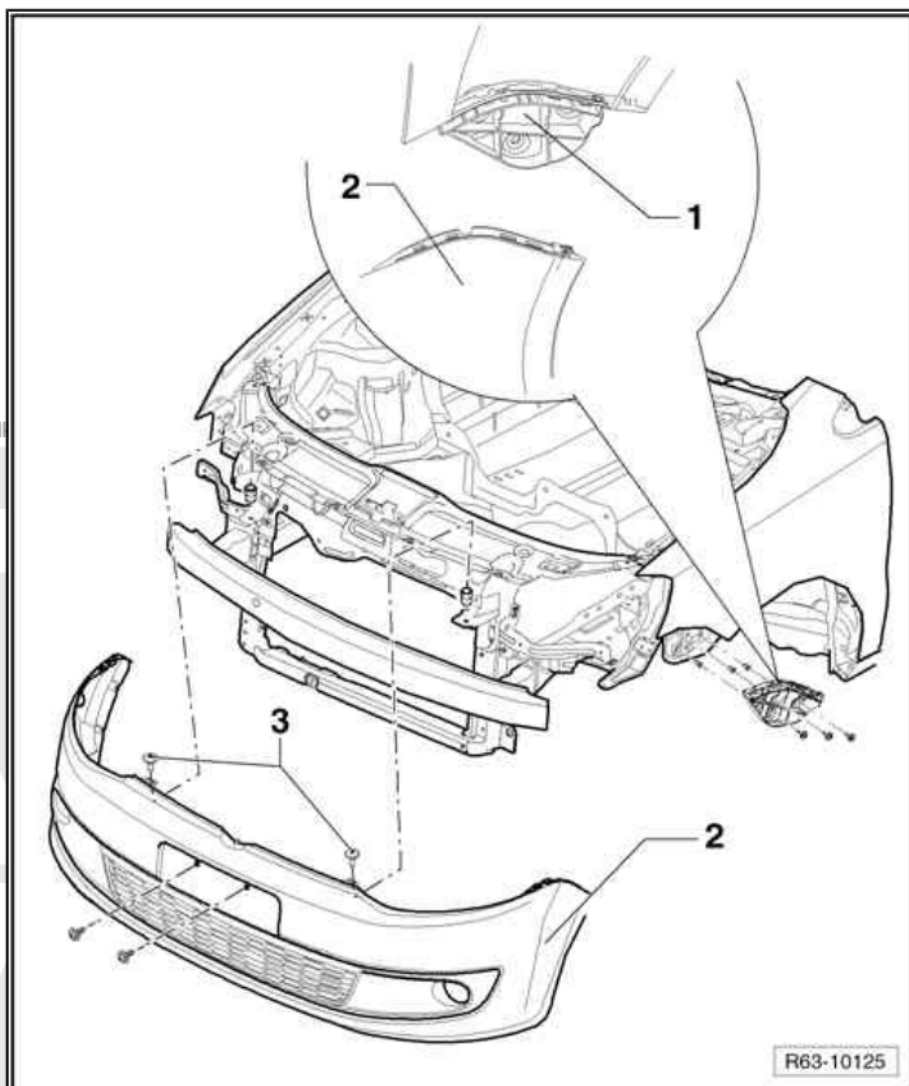
- Remove front grille.



- Remove screws -1- and -3- (1.5 Nm) from the wheelhouse fenders.
- Displace the wheelhouse shield downwards and remove the screws -4- (1.5 Nm).
- Remove screws -5- (1.5 Nm).



- Remove screws -6- (3 Nm).



- Disengage the front cover -2- from the guide -1-.
- Remove screws -3- that attach the front panel cover.
- Remove the front cover.
- Remove the front shield carefully -3- forward.
- Disconnect the fog light connectors and Ambient temperature sensor -G17-

1.5.2 Installation

Installation happens in reverse order, ensure the following:

- Check the clearance measures ⇒ Body Repairs; Rep. Gr. 00 ;
Technical data - Body clearance measures and tighten the
fastening screws.



1.6 Front protection support - assembly overview

1 - Front protection support

2 - Screw

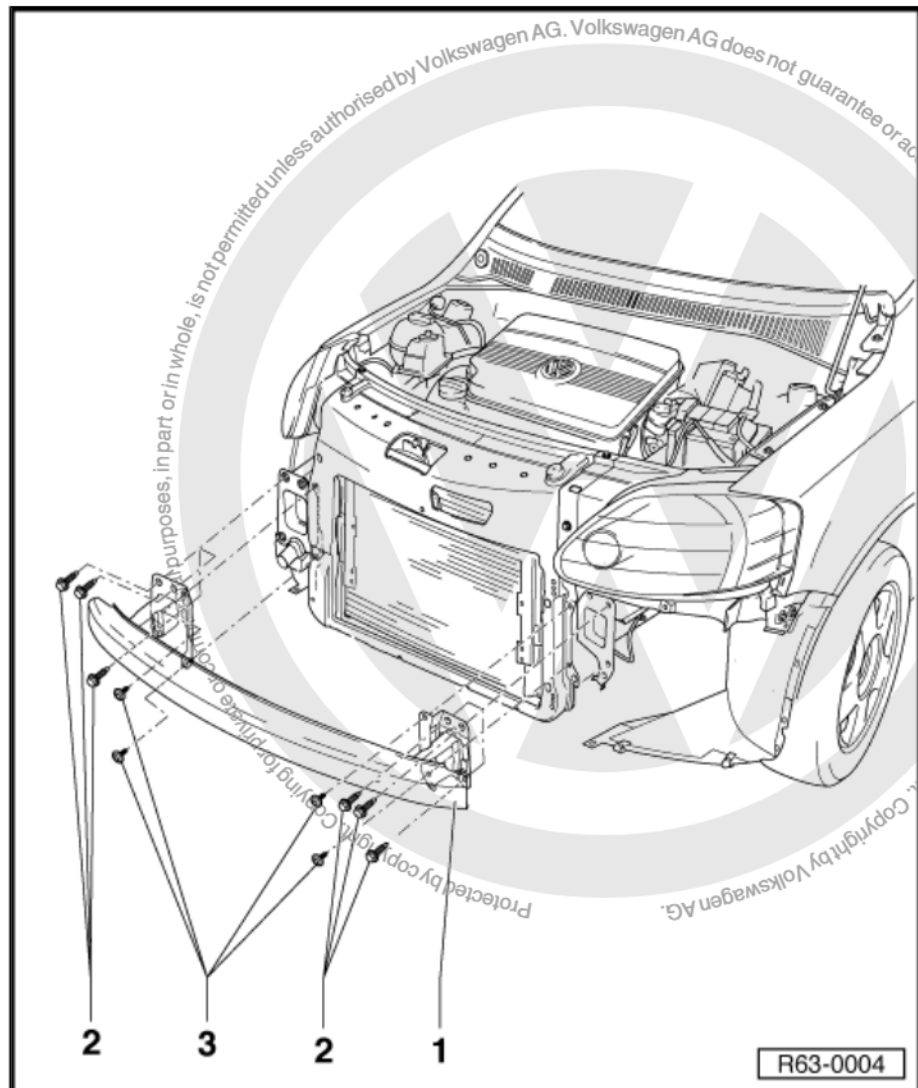
□ 6 parts

□ 35 Nm

3 - Screw

□ 4 parts

□ 8 Nm





2 Rear bumper

2.1 Rear bumper (up to model-year 2010) - assembly overview

1 - Hexagon nut

- ☐ 2 parts
- ☐ 6.5 Nm

2 - Screw

- ☐ 4 parts
- ☐ 1.5 Nm

3 - Guide part

4 - Screw

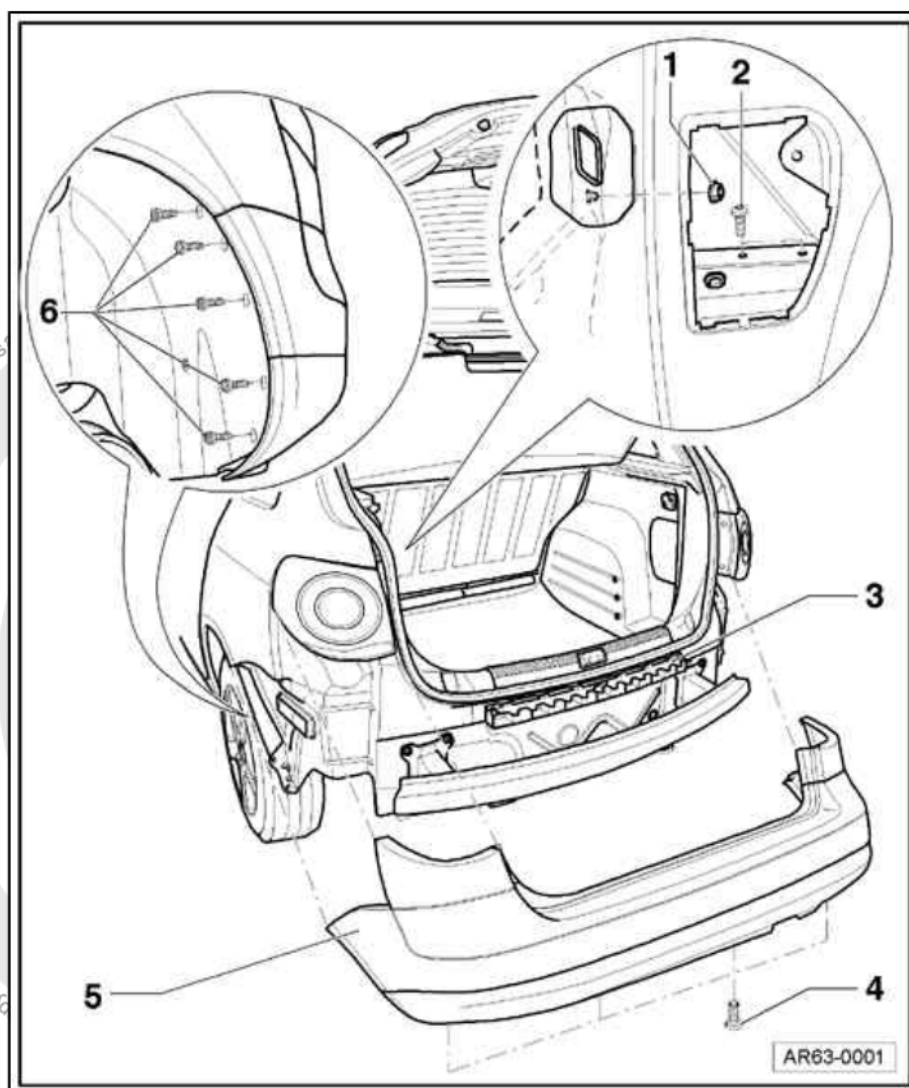
- ☐ 4 parts
- ☐ 6.5 Nm

5 - Rear protection

- ☐ Remove and install
⇒ [page 146](#)

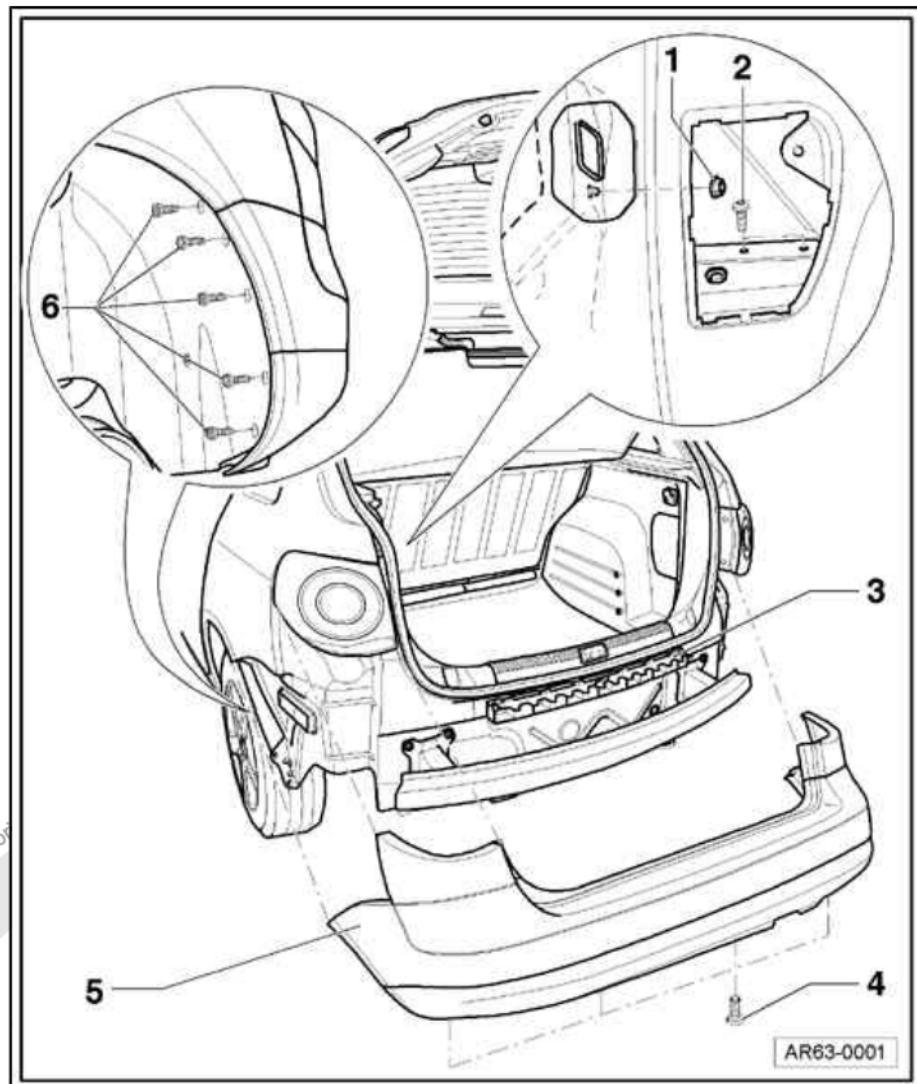
6 - Screw

- ☐ 10 parts
- ☐ 1.5 Nm





2.2 Rear shield (up to model-year 2010) - remove and install



2.2.1 Removal

- Remove the covers from the side lining of the luggage compartment.
- Loosen the screws -6- from the wheelhouse covers.
- Loosen the lower screws-4-
- Remove the side screws-2- and loosen the nuts under the taillight -1-
- Pull the rear shield carefully -5- outwards the guide part slot -3- and remove it backwards.

2.2.2 Installation

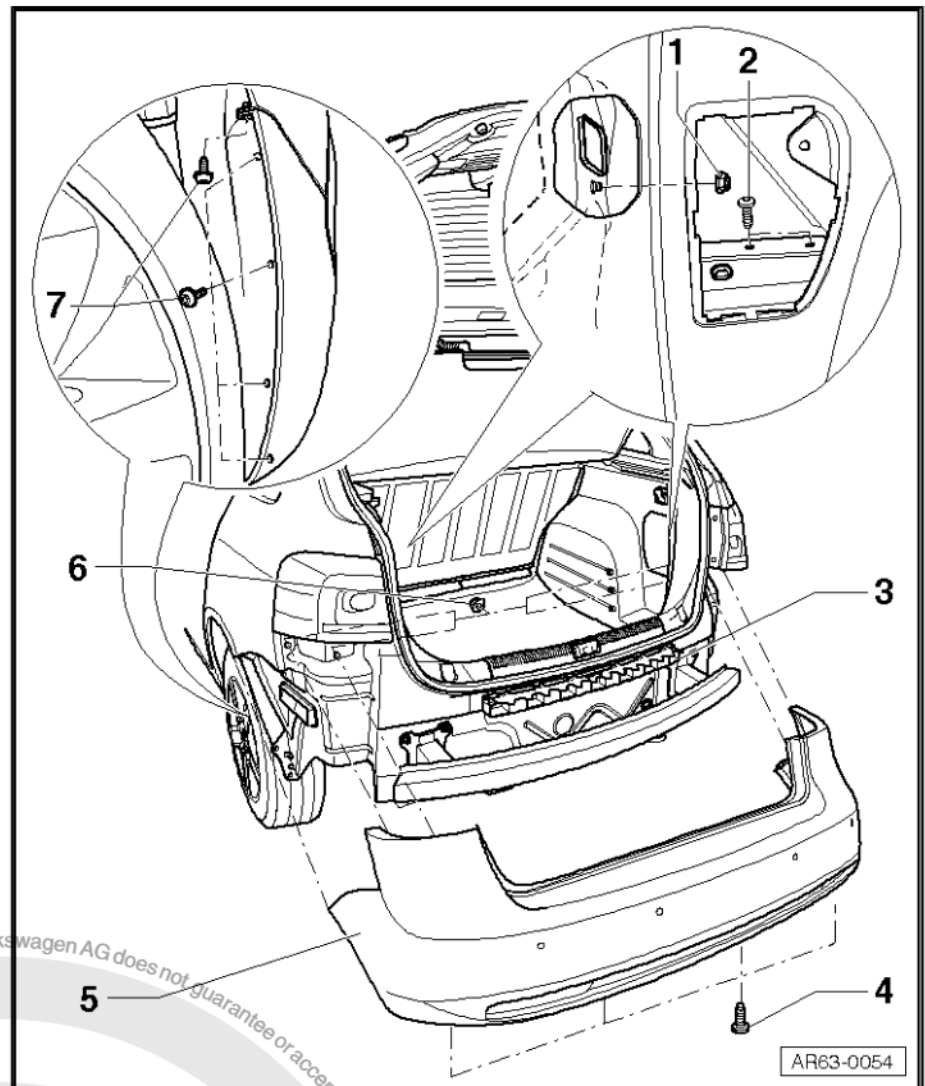
Install by inverting the removal sequence, paying attention to the following:

- Tighten belt fastening screws -4- and the nuts -1- with 6.5 Nm.
- Tighten belt fastening screws -2- and -6- with 1.5 Nm.



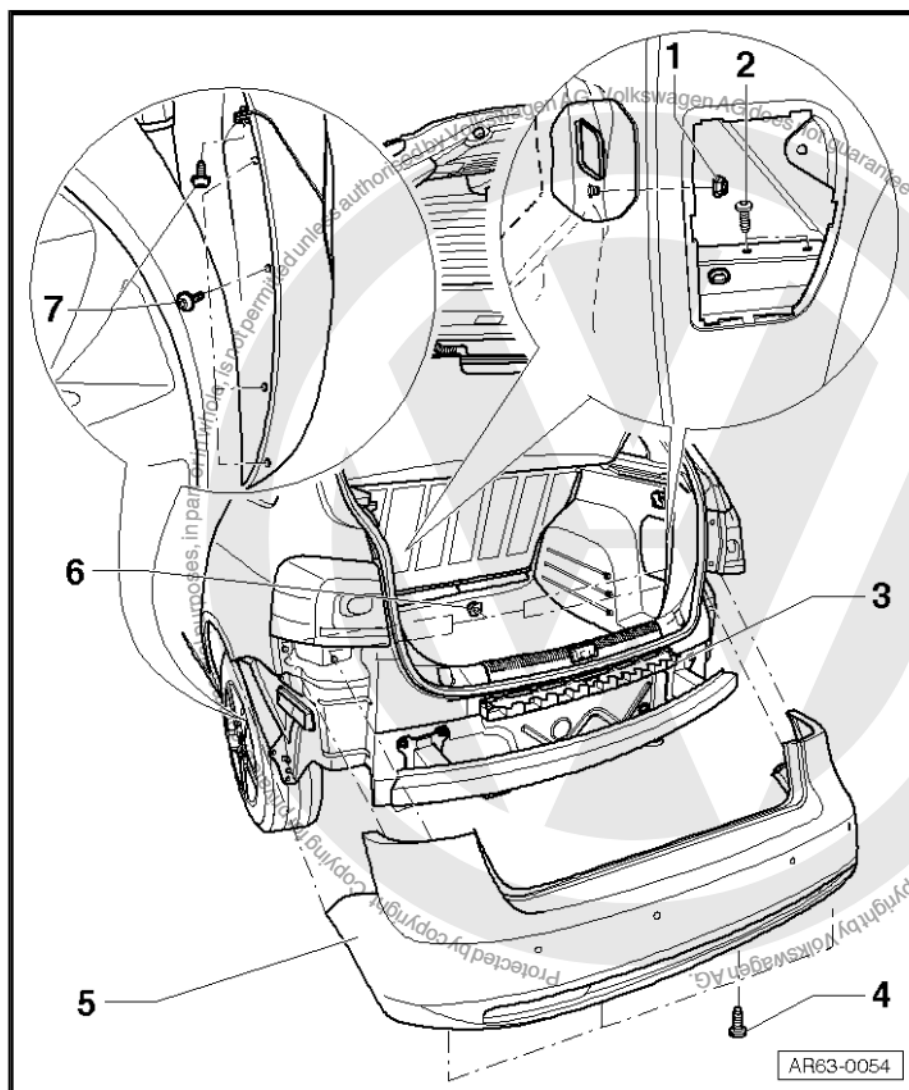
2.3 Rear bumper (up from model-year 2011) - assembly overview

- 1 - Hexagon nut
 - 2 parts
 - 6.5 Nm
- 2 - Screw
 - 4 parts
 - 1.5 Nm
- 3 - Guide part
- 4 - Screw
 - 4 parts
 - 6.5 Nm
- 5 - Rear protection
 - Remove and install
 - ⇒ [page 148](#)
- 6 - Nut with washer incorporated
- 7 - Screw
 - 10 parts
 - 1.5 Nm





2.4 Rear shield (up from model-year 2011) - remove and install



2.4.1 Removal

- Remove the covers from the side lining of the luggage compartment.
- Loosen the screws -6- from the wheelhouse covers.
- Loosen the lower screws-4-
- Remove the side screws-2- and loosen the nuts under the taillight -1-.
- Pull the rear shield carefully -5- outwards the guide part slot -3- and remove it backwards.

2.4.2 Installation

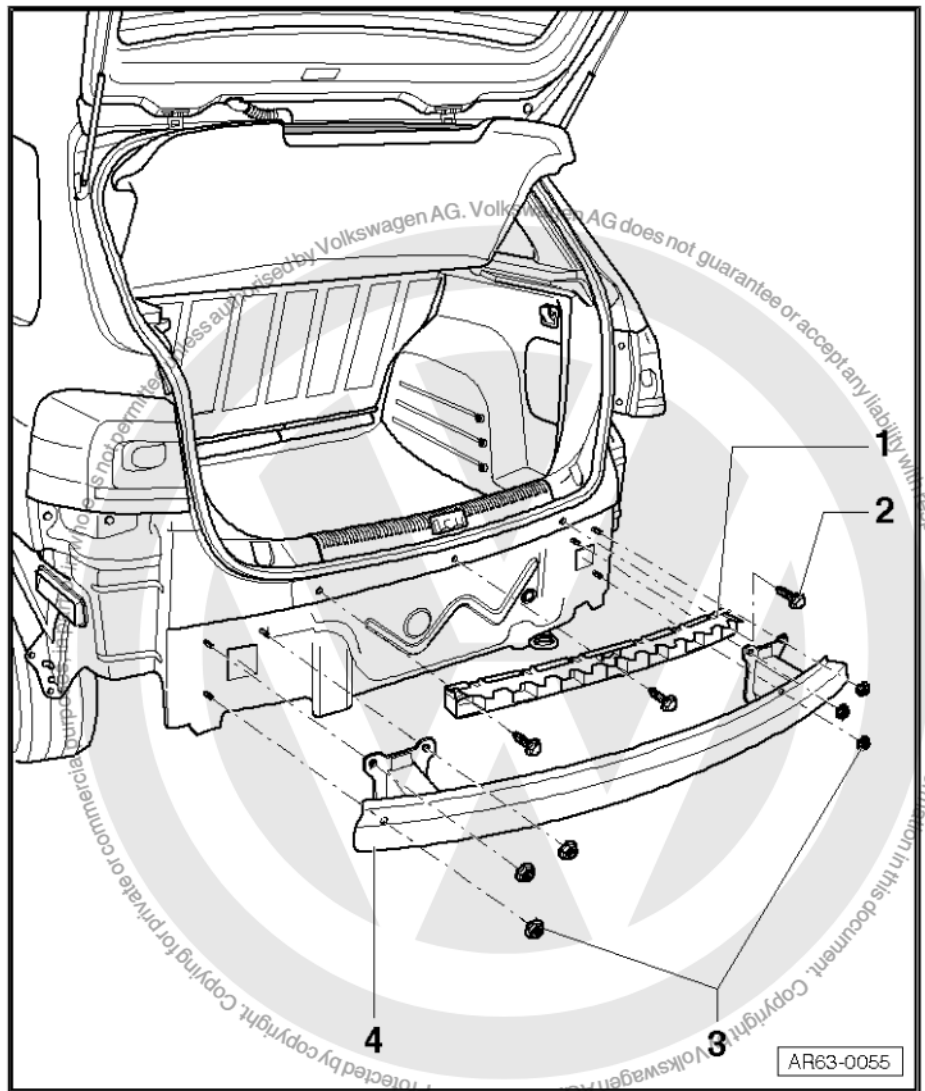
Install by inverting the removal sequence, paying attention to the following:

- Tighten belt fastening screws -4- and the nuts -1- with 6.5 Nm.
- Tighten belt fastening screws -2- and -6- with 1.5 Nm.



2.5 Rear shield bracket (valid for model-year up to 2010 and up from 2011) - assembly overview

- 1 - Guide part
- 2 - Screw
 - 4 parts
 - 3 Nm
- 3 - Rear protection support
- 4 - Hexagon nut
 - 6 parts
 - 20 Nm



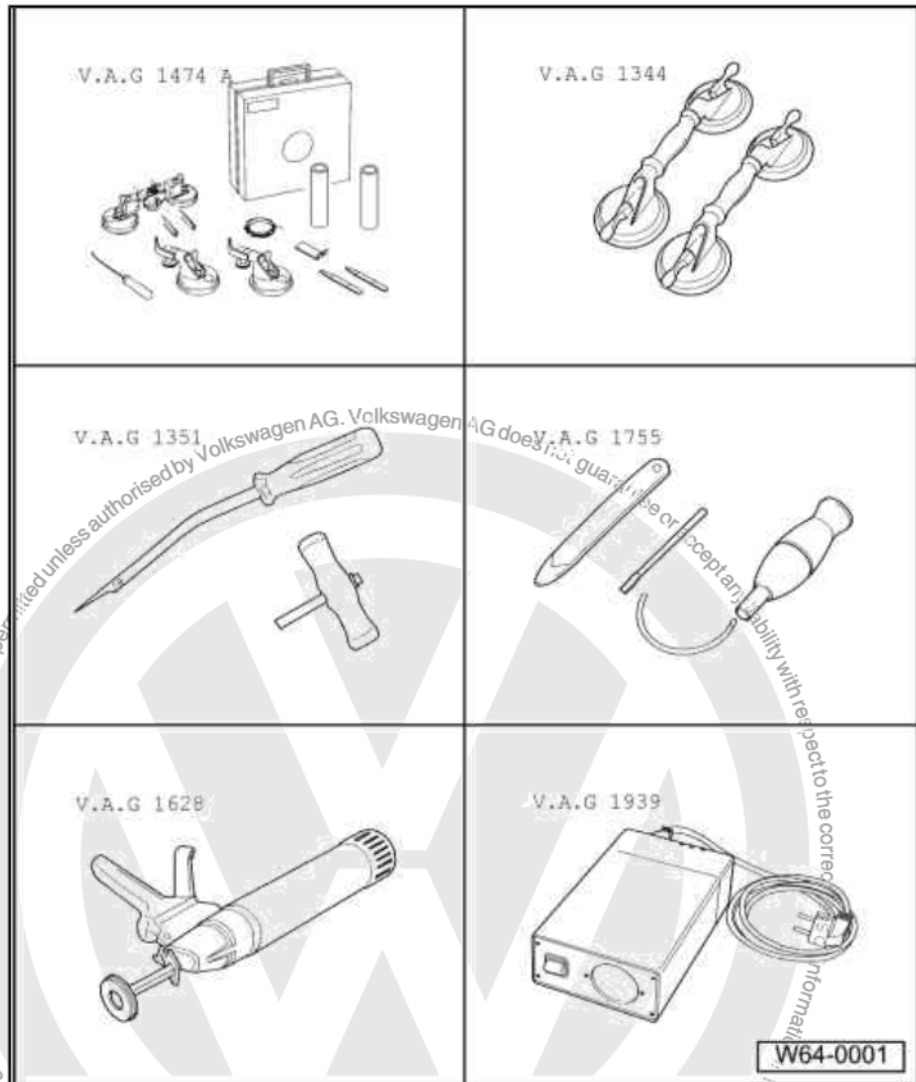


64 – Windshield, windows, window mechanisms

1 Glass panels glued with adhesive

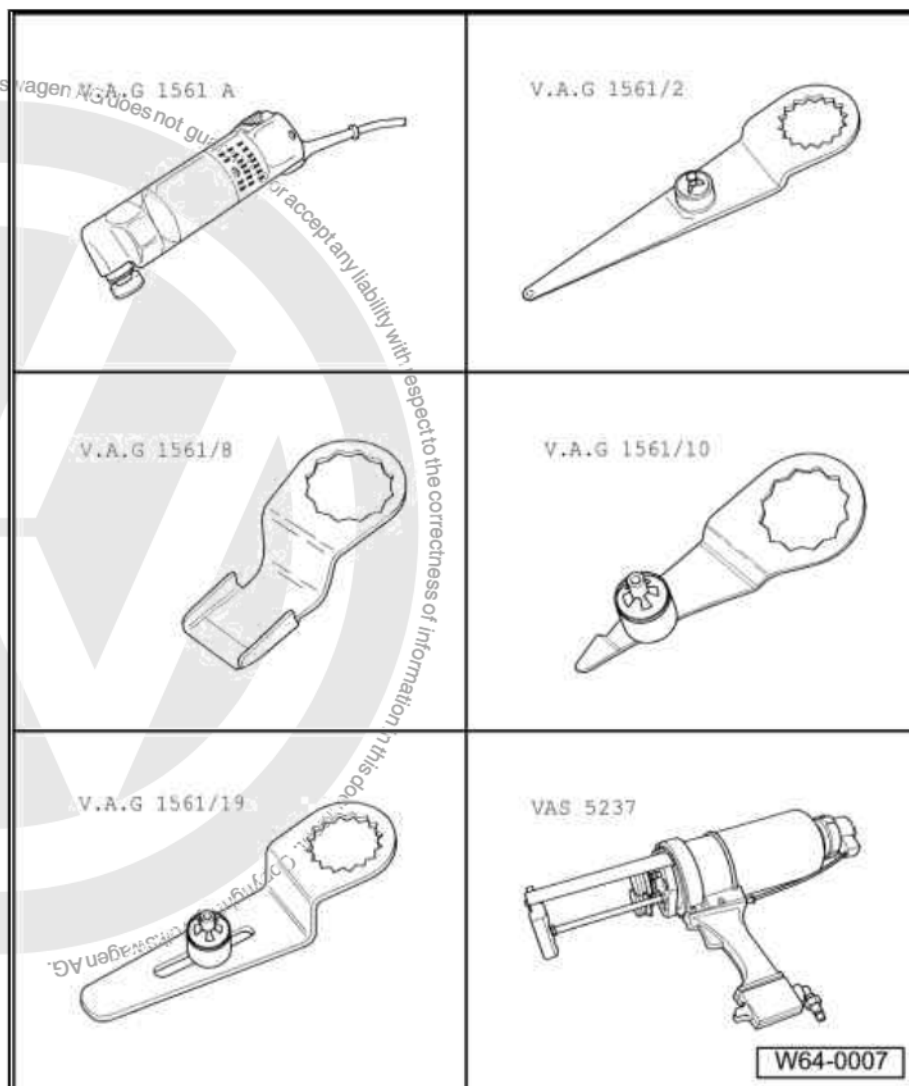
Special tools and workshop equipment required

- ◆ Removal kit for flush bonded windows -VAG 1474B-
- ◆ Suction lifter -V.A.G 1344-
- ◆ Anchor tool -VAG 1351-
- ◆ Windshield removal set - V.A.G 1755-
- ◆ Hand-cartridge gun -V.A.G 1628-
- ◆ Reeling appliance -VAG 1654A-
- ◆ Cover for Audi 80/92>, dash panel -VAG 1474/8-
- ◆ Cartridge heater -V.A.G 1939-





- ◆ Electric cutter for glued glass panels -VAG 1561A-
- ◆ Blade 58 mm -VAG 1561/2-
- ◆ Blade 15 mm -VAG 1561/7/8-
- ◆ Blade -VAG 1561/10-
- ◆ Blade -V.A.G 1561/19-
- ◆ Adhesive compressed air applicator -VAS 5237-



Auxiliary materials for the Brazilian market

- | | |
|-------------------------------|---|
| ◆ Windows adhesive Kit | Refer to Chemicals Manual ⁵⁾ |
| ◆ Cutting cord | 357 853 999 |
| ◆ Glass panel adjustment shim | 443 845 631 A |
| ◆ Isopropyl alcohol | Refer to Chemicals Manual |

5) Watch the minimum curing time.

Auxiliary materials for the Brazilian market

- | | |
|----------------------------------|---------------------------------|
| ◆ Adhesive for glass panels -2K | DA 004 600 A2 ^{8) 7)} |
| ◆ Adhesive for glass panels - 1K | DH 009 100 03 ^{9) 10)} |
| ◆ Activator | AMV 181 800 02 ⁶⁾ |
| ◆ Glass panel/painting primer | D 009 200 02 ⁶⁾ |



- ◆ Cleaning solution D 009 401 04 ⁶⁾
- ◆ Primer dispenser D 009 500 25 ⁶⁾
- ◆ Adhesive remover D 002 000 10 ⁶⁾
- ◆ Cutting cord 357 853 999
- ◆ Cutting wire 357 845 955
- ◆ Glass panel adjustment shim 443 845 631 A

6) Materials are stored in the box D 004 700.

7) Watch the minimum adhesive curing time ➔ [page 160](#).

8) In order to apply these materials we should use the Adhesive compressed air applicator -VAS 5237-.

9) Heat with the Cartridge heater -V.A.G 1939- according to the manufacturer instructions.

10) Small 110 ml cartridge for seal work and/or when double cartridge with 400 ml is not enough.

1.1 Windshield - Assembly overview

1 - Measurement a = 3 mm

- ☐ Sideways

2 - PUR adhesive seam

- ☐ Width of seam cross section: 6...7 mm
- ☐ Height of seam cross section: 9...11 mm (including remaining material on the glass panel and glass panel flange)
- ☐ Minimum curing time ➔ [page 160](#)

3 - Measurement b = 2.5 mm

- ☐ On top

4 - Spacer

- ☐ 3 parts
- ☐ Self-adhesive
- ☐ Glue before placing the glass panel

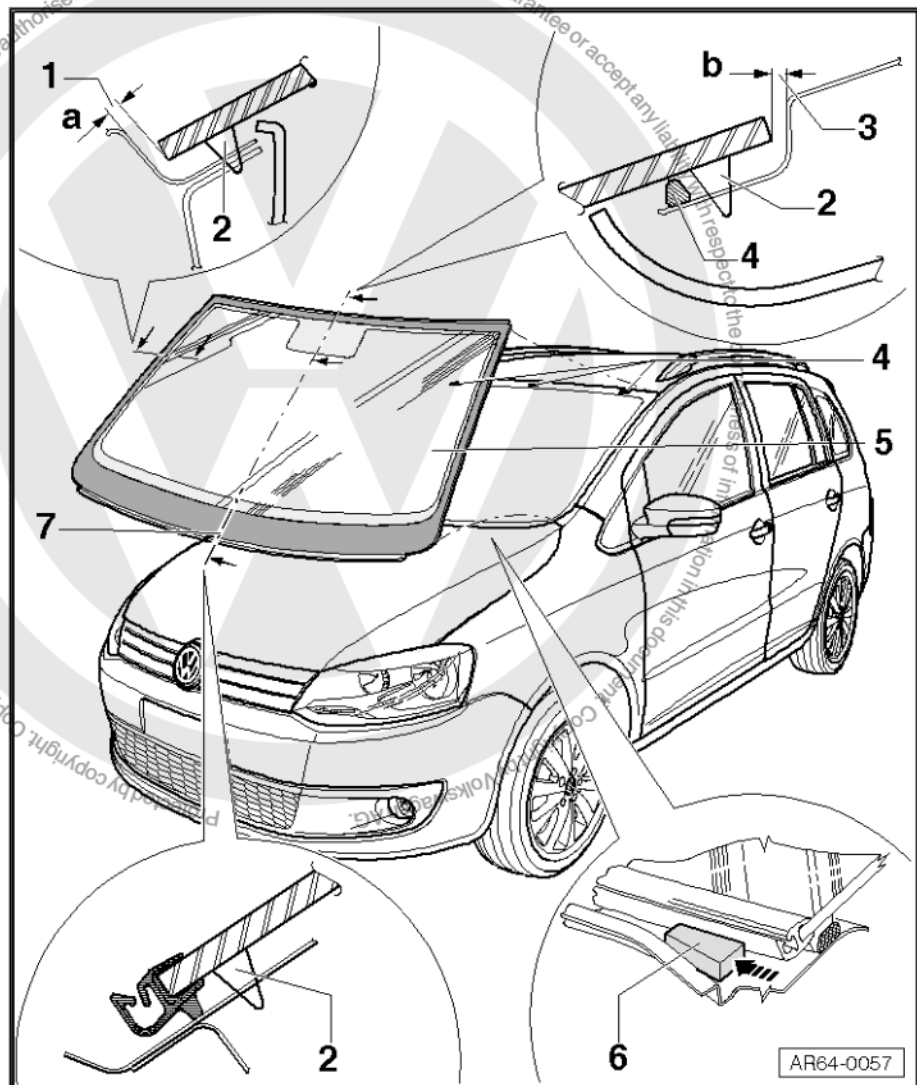
5 - Windshield

- ☐ Removal ➔ [page 153](#)
- ☐ Installation ➔ [page 153](#)

6 - Glass panel adjustment shim

- ☐ Replacement part N. -443 845 631 A-

7 - PUR adhesive seam joining points

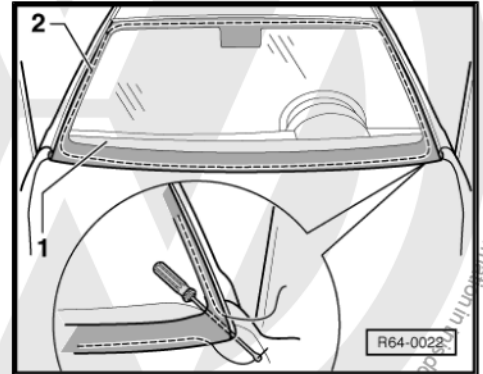


AR64-0057



1.2 Windshield - remove

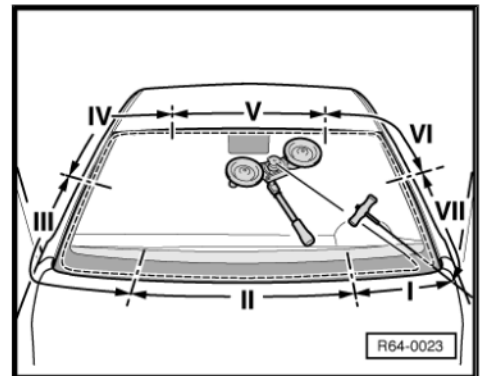
- Remove the windshield lower trim ⇒ [page 205](#) .
- Remove the linings from column A ⇒ Body - internal mountings; Rep. Gr. 70 ; Column A lining - removal and installation .
- Remove the sunshades ⇒ Body - internal mountings; Rep. Gr. 68 ; Sunshade - removal and installation .
- Remove the inner rearview mirror ⇒ Body - internal mountings; Rep. Gr. 68 ; Internal rearview mirror - removal and installation .
- Insert a Cover for Audi 80/92>, dash panel -VAG 1474/8- -1- between the windshield and the instrument panel.
- Introduce the Cutting cord -357 853 999- -2- with the aid of a tube (from the Windshield removal set -VAG 1755-) on the glass flange.
- At the areas where there is small clearance, distribute the Cutting cord -357 853 999- through the outer side and press the lip with a Plastic wedge .
- Slowly pull the Cutting cord -357 853 999- with the handle (of Removal kit for flush bonded windows -VAG 1474B-) through the adhesive bead in the vehicle inner portion.



Note

Conduct the handle on the glass panel side area as close as possible to body glass panel flange through the adhesive seam so that seal lip does not damage.

- Attach the end of the Cutting cord -357 853 999- on the Reeling appliance -VAG 1654A- .
- Pull the second end of the Cutting cord -357 853 999- inwards and put the handle (of the Anchor tool -VAG 1351-) to hold it.
- Place the Reeling appliance -VAG 1654A- on the -position I-.
- Change the position of the device to the -position II-, then to the -position III- and, continuously until the total cut of adhesive.
- During the cut (separation), press the cutting edge towards the glass with a Plastic wedge so as to obtain a free passage at the glass flange and the instrument panel.



1.3 Windshield - install

Prepare the undamaged glass panel for installation
⇒ [page 158](#) .

Prepare the new glass panel for installation ⇒ [page 158](#) .

Prepare the body flange for glass installation ⇒ [page 159](#) .

Assembly instructions ⇒ [page 159](#) .

Adhesive minimum curing time ⇒ [page 160](#) .

1.4 Fixed side glass panels - assembly overview



1 - Side glass

- ☐ Remove the side glass
⇒ [page 154](#)
- ☐ Install the side glass
⇒ [page 155](#)

2 - PUR adhesive seam

- ☐ Minimum curing time
⇒ [page 160](#)

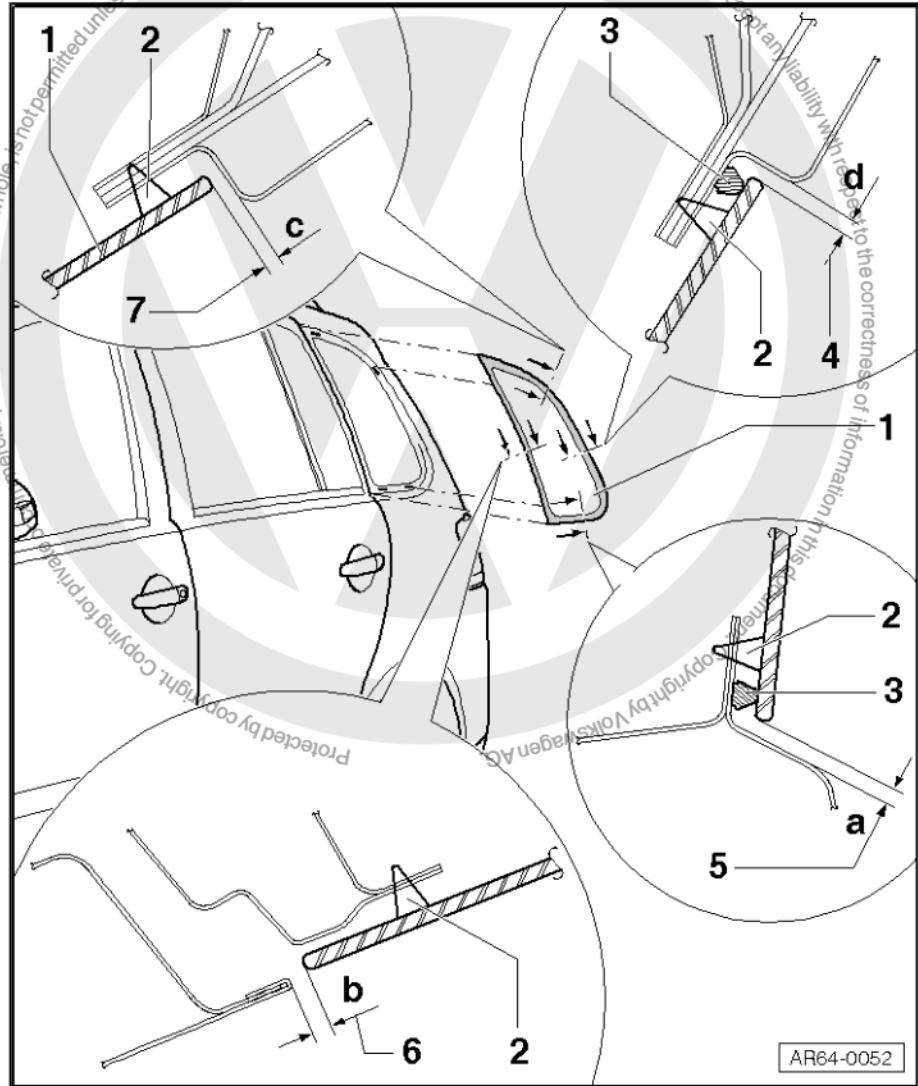
3 - Spacer

4 - Measurement d = 3 mm

5 - Measurement a = 3 mm

6 - Measurement b = 3 mm

7 - Measurement c = 3 mm

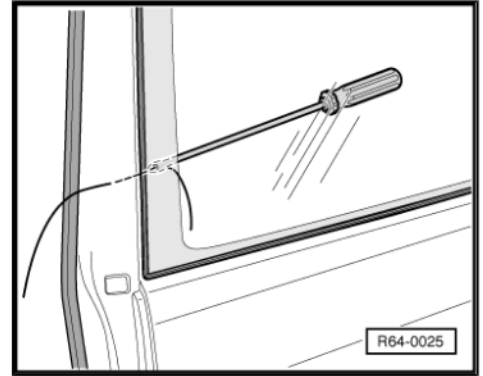


1.5 Undamaged side window - remove

- Remove C and D pillar, and the luggage compartment lining
⇒ Body - internal mountings; Rep. Gr. 70 ; Pillars C and D
lining - remove and install .



- Slowly pull the Cutting cord -357 853 999- with the handle (of Removal kit for flush bonded windows -VAG 1474B-) through the adhesive bead in the vehicle inner portion.
- At the areas where there is small clearance, distribute the Cutting cord -357 853 999- through the outer side and press the lip with a Plastic wedge .
- Place the Cutting cord -357 853 999- around the side glass.
- Pull the end of the Cutting cord -357 853 999- with the handle through the adhesive bead in the vehicle inner portion.
- Position Anchor tool -VAG 1351- in one of the ends of the Cutting cord -357 853 999- inwardly so as to hold it.
- Fix the other end of the Cutting cord -357 853 999- on the Reeling appliance -VAG 1654A- and cut the glass adhesive. Change the position of Reeling appliance -VAG 1654A- until the total cut of the adhesive bead.
- During the cut (separation), press the tip of the Cutting cord towards the glass with a Plastic wedge so as to get a free passage through the glass flange.



1.6 Damaged side window - remove

The removal of a damaged side glass is performed in the same way as described for the rear glass removal ➔ [page 157](#) .

1.7 Side window - install

Prepare the undamaged glass panel for installation ➔ [page 158](#) .

Prepare the new glass panel for installation ➔ [page 158](#) .

Prepare the body flange for glass installation ➔ [page 159](#) .

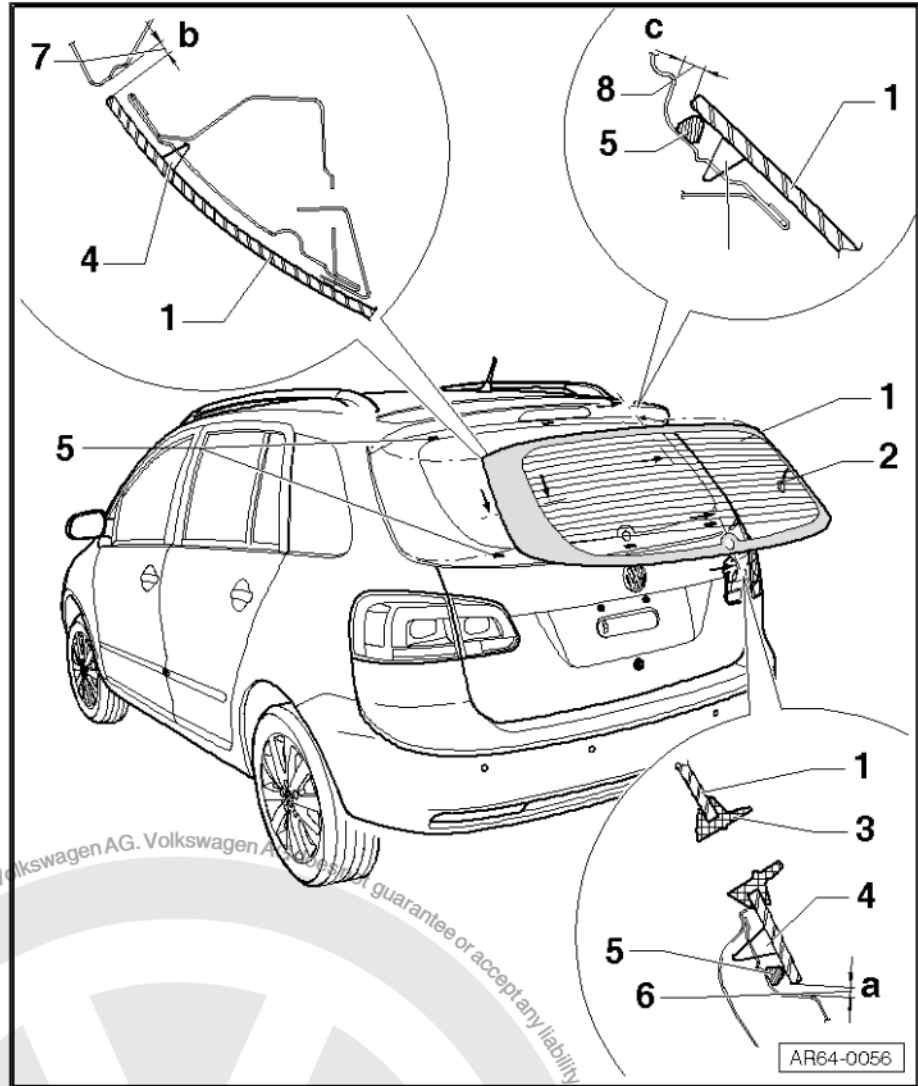
Assembly instructions ➔ [page 159](#) .

Adhesive minimum curing time ➔ [page 160](#) .

1.8 Rear window - assembly overview



- 1 - Rear window
 - ☐ Remove the rear glass
⇒ [page 156](#)
 - ☐ Install the rear glass
⇒ [page 158](#)
- 2 - Defogger terminal
- 3 - Sealing
 - ☐ For rear window wiper
 - ☐ Note the assembly position: upper marks
- 4 - PUR adhesive seam
 - ☐ Adhesive minimum curing time ⇒ [page 160](#)
- 5 - Spacer
 - ☐ 6 parts
 - ☐ Self-adhesive
 - ☐ Glue before placing the glass panel
- 6 - Measurement a = 3 mm
- 7 - Measurement b = 4 mm
- 8 - Measurement c = 3 mm



1.9 Undamaged rear window - remove

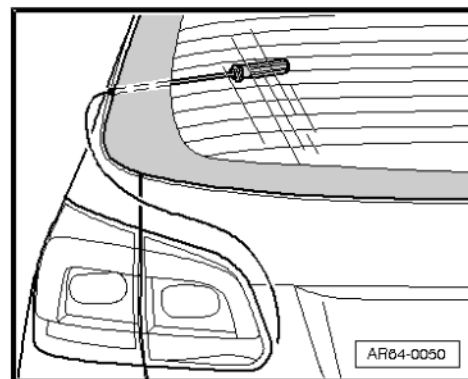
- Remove rear door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Rear hatch lining - Removal and installation .
- Disconnect the rear window heating connections and press the glass panel contact ends.
- Remove rear glass wiper motor ⇒ Electrical equipment; Rep. Gr. 92 ; Rear window wiper engine - remove and install .
- If necessary, kink the handle (of Removal kit for flush bonded windows -VAG 1474B-) slightly down for avoiding a very high tensioning over the rear glass.



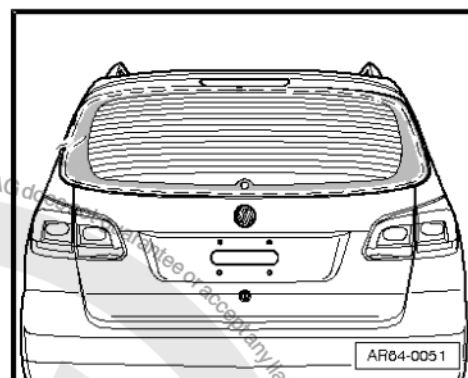
- Open up a little the lid and join the handle to the adhesive seam (use the rear window side area).

The handle shall be guided as close as possible to the window.

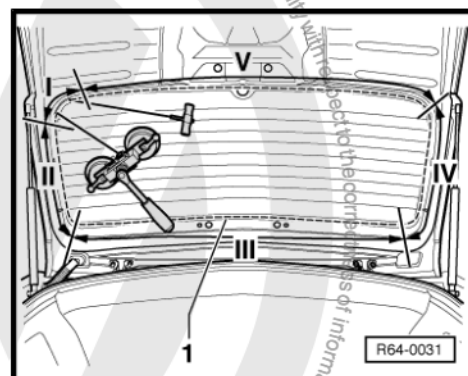
- Pull in one of the ends of the Cutting cord -357 853 999- inwards (use the pliers and protective gloves).



- Place the Cutting cord -357 853 999- around the rear glass.
- Pull the outer end of the Cutting cord -357 853 999- inwards and fix the handle to hold it.



- Mark the whole border of the flange -1- with reinforced adhesive tape.
- Attach both ends of the Cutting cord -357 853 999- on the Reeling appliance -VAG 1654A-.
- Place the Reeling appliance -VAG 1654A- on the -position I-.
- Change the position of the device to the -position II-, then to the -position III- and, continuously until the total cut of adhesive.
- During the cut, press the Cutting cord -357 853 999- towards the glass with a Plastic wedge so as to get a free passage through the glass flange.



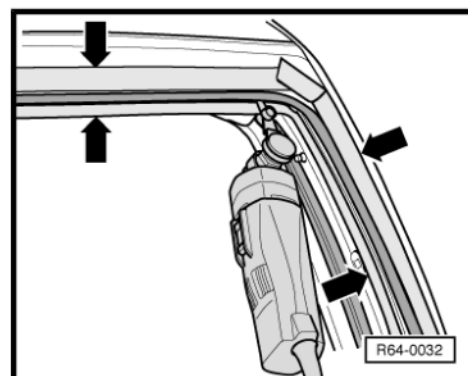
1.10 Damaged rear window glass panel - remove

- Protect the body and interior compartment from glass chips.
- Eliminate glass panel chips until removing the seal adhesive material.
- Disconnect window heating connections.
- Mark -arrows- the whole border of the flange and the cover edge with reinforced adhesive tape.
- Cut the adhesive (with glass residues) at the glass cut with a Blade -VAG 1561/10- (with limiter roll).



DANGER!

Wear safety goggles and leather gloves.





1.11 Rear window glass panel - install

Prepare the undamaged glass panel for installation
⇒ [page 158](#) .

Prepare the new glass panel for installation ⇒ [page 158](#) .

Prepare the body flange for glass installation ⇒ [page 159](#) .

Assembly instructions ⇒ [page 159](#) .

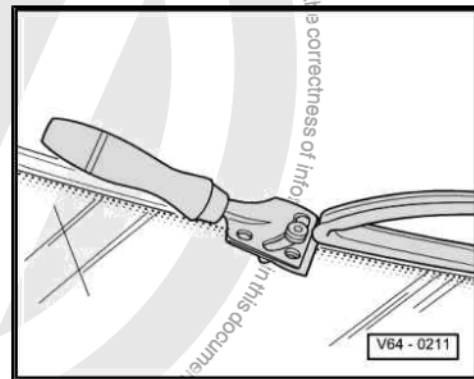
Minimum curing time ⇒ [page 160](#) .

1.12 Undamaged glass - prepare for installation



Note

- ◆ *When reusing undamaged glass, reduce the adhesive seam layer to 1-2 mm height and watch out not to damage the primer and ceramic layers.*
- ◆ *The adhesive seam layer serves as base for the new gluing.*
- ◆ *Do not apply primer or cleaning products to the adhesive surface. Keep the adhesive bonding surface free from dirt and grease.*
- ◆ *Exception: If gluing is not done immediately after reducing the layer, then the adhesive bead layer must be activated with Activator -AMV 181 800 02- .*



1.13 New glass - prepare for installation

- The application area of the adhesive seam does not have a preliminary layer of adhesive nor primer.
- Clean about 20 mm all around the glass border with Cleaning solution -D 009 401 04- .
- Then rub to dry the glass edge using a clean cloth.

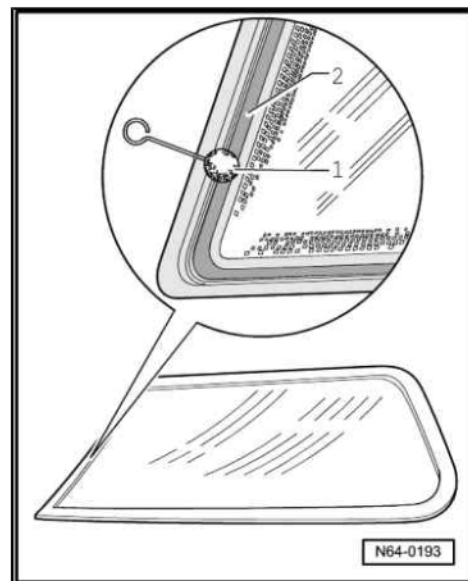


Note

- ◆ *Apply the primer ??prior to applying adhesive! Use only Primer -D 009 200 02-*
- ◆ *For vehicles on the Brazilian market, watch that primers that belong to the ??removal set for glued glass panels are used.*



- Apply the primer -2- with Applicator -D 009 500 25- -1- evenly and in a sole application - curing time approx. 10 minutes.



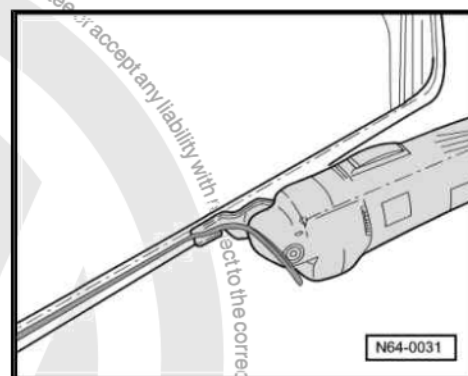
1.14 Body flange - prepare for installation of the glass

- Cut the adhesive residue at the glass flange with the Blade 15 mm -VAG 1561/8- , but do not cut it out completely anyway.



Note

- ◆ The adhesive seam layer serves as base for the new gluing. Keep the adhesive bonding surfaces free from dirt and grease.
- ◆ Exception: If gluing is not done immediately after reducing the layer, then the adhesive bead layer must be activated with Activator -AMV 181 800 02- .
- ◆ The activator shall not get in contact with the paint, otherwise the paint will be damaged.
- ◆ If the body flange was repainted, then the corresponding painting area shall be cleaned again and primed.

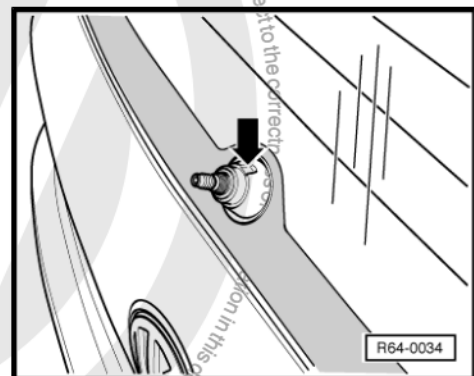
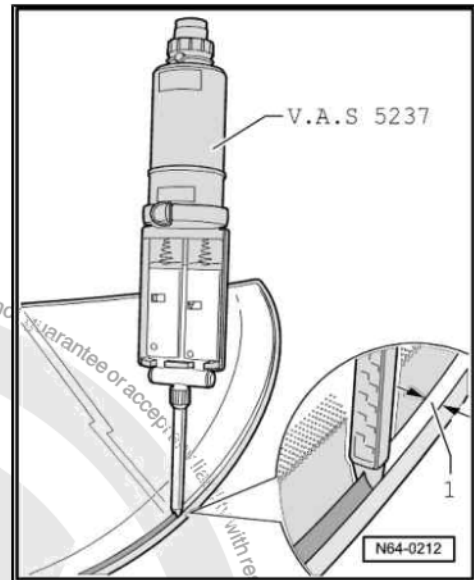


1.15 Assembly instructions



DANGER

The window glass panels should be installed within 10 minutes, otherwise the glass panel adhesive efficiency is completely lost.



- ◆ Apply the adhesive all over the outline and at right angle in relation to the window.
- ◆ Place the glass in the glass pocket with the aid of two Suction lifter -V.A.G 1344- , align and press to the inside of the spacing recess.
- ◆ Windshield clearance measurements ⇒ [page 152](#) .
- ◆ Fix the windshield during the curing time with the Glass panel adjustment shims -443 845 631 A- .
- ◆ The lower windshield trim shall obligatorily be installed as described in ⇒ [page 205](#) .
- ◆ If there are any warning labels (e.g. for Airbag), they shall be glued again.
- ◆ Side glass clearance measures ⇒ [page 153](#) .
- ◆ During the installation of the seal rubber for the rear window wiper engine axle, observe the assembly position. The mark -arrow- should point up.
- ◆ Clearance measurements for rear window ⇒ [page 155](#) .
- ◆ The activator shall not be applied over the defogger wires.
- ◆ For application of adhesive there are marks on the rear window right and left sides.
- ◆ On no account shall the rear window invade the rear lid outline after its installation!
- ◆ Secure the rear window with adhesive tape during curing time.
- ◆ If the adhesive seam is too thick and spreads over the defogger area, it shall be removed.

1.16 Adhesive minimum curing time

If the side glass panel is glued with Essex or Nucleus U-400 set for glass gluing, then the vehicle can be returned to customer 3 hours after repair. If Nucleus PU-501 set was employed for glazing, the vehicle can be returned to customer 1 hour after repair. Warn the customer on precaution procedures during the curing time until the adhesive is completely dry.

For adhesive 2 K -DA 004 600 A2- the minimum curing time is 3 hours for all glasses.



The minimum curing time is the time between glass panel gluing and use of vehicle. During this period of time shall the vehicle remain on a flat surface and at room temperature (at least 15 °C).



DANGER!

The vehicle may only be released to the customer after the minimum curing time has elapsed.

1.17 Damage to the painting - repair

In case of damages to the painting in visible areas and large damages to non-visible areas when the glass panel is installed, they shall be repainted according to the Painting Manual instructions ⇒ Painting Manual .

For small damages to the painting in non-visible areas when the glass panel is installed, the following repair method is recommended: Two layers in opposite directions (wet over wet) of Painting/glass primer -D 009 200 02- .

- Apply a layer of paint on the damaged area.
- Let it dry for 10 minutes.
- Apply another layer of paint on the opposite direction of the first layer.

1.18 Cleanness in case there are residues resulting from adhesive

- We recommend, as cleanness product, the use of Adhesive remover -D 002 000 10- . Follow to safety the instructions while applying it.



DANGER!

When cleaning is performed from the passenger room, do not exert any force from the inside to the outside on a newly installed glass panel.

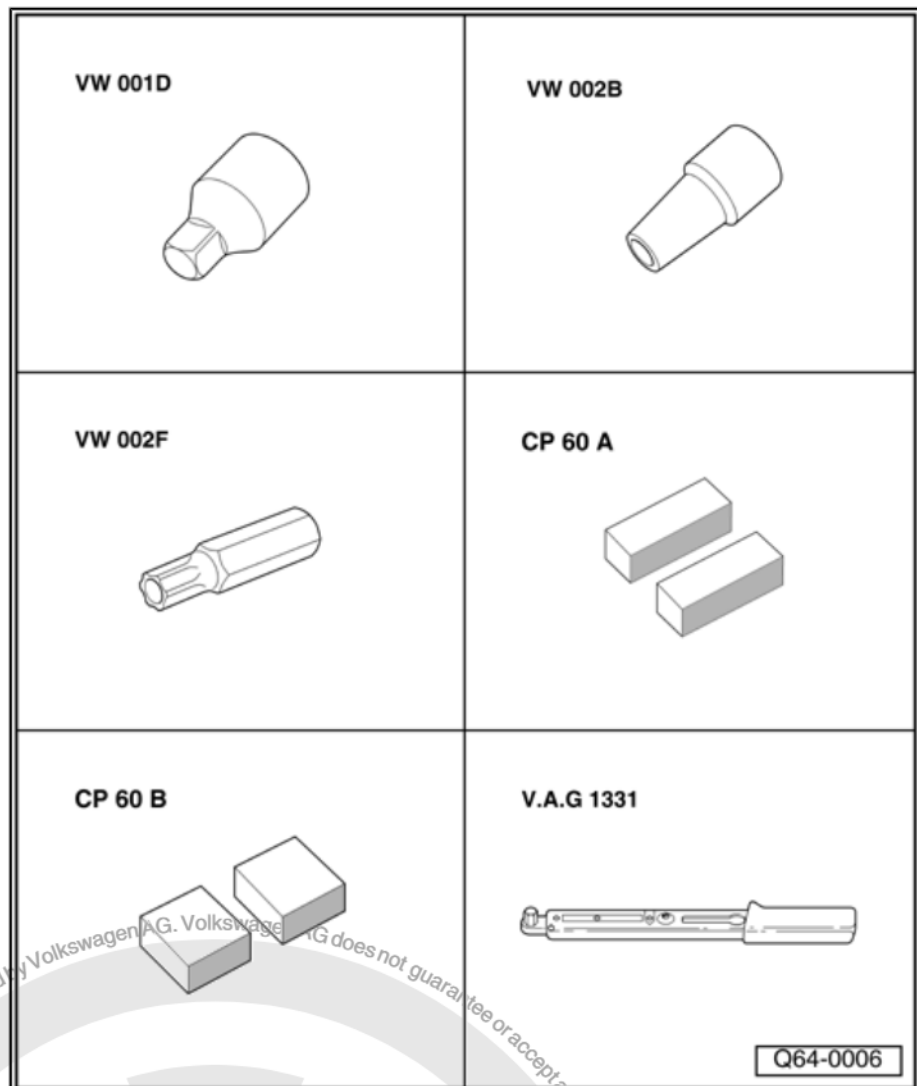
- First clean the painted surface with a dry cloth. Remove the residues with the Adhesive remover -D 002 000 10-.
- Clean the plastic trim: Let adhesive sealing material cure for about 1 hour and then remove it.



2 Door window glass panels

Special tools and workshop equipment required

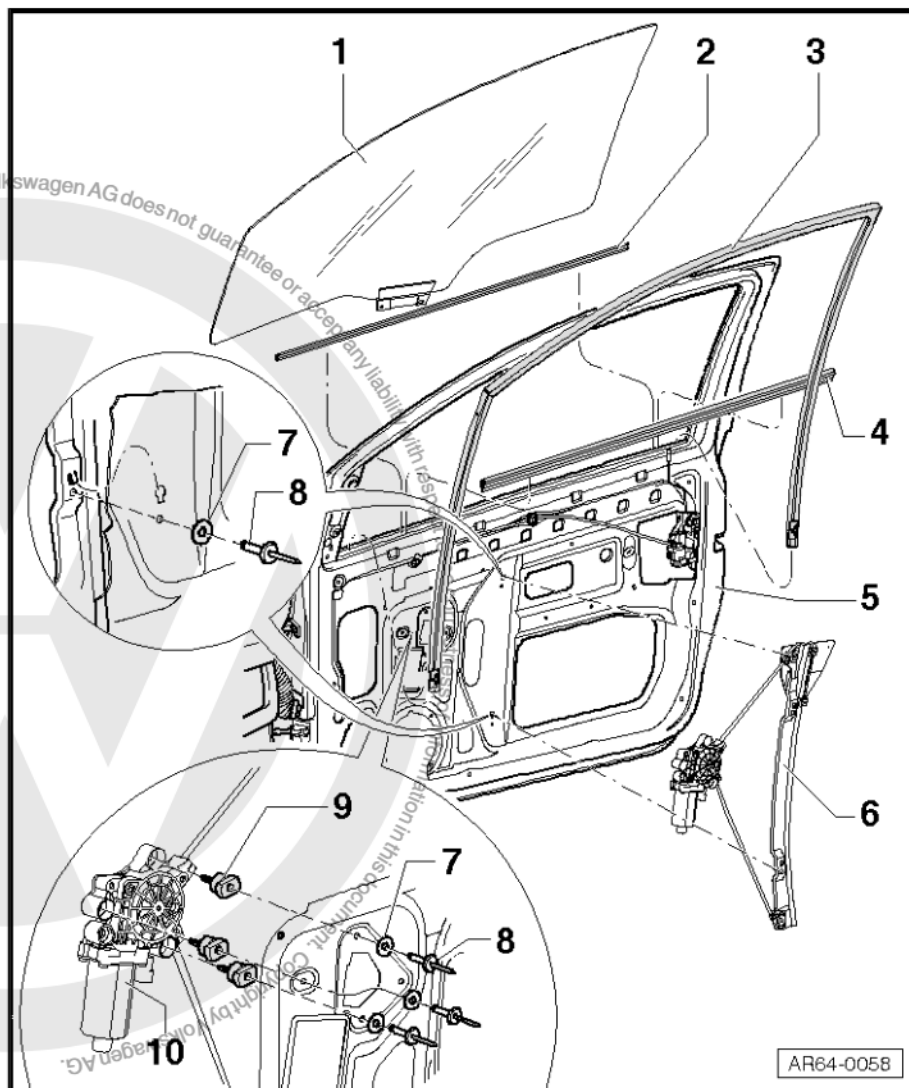
- ◆
- ◆ Sleeve 1/2" x 3/8" -VW 001D-
- ◆ 1/4" ??bits adapter (socket 3/8") -VW 002B-
- ◆ Threaded bits TORX-TX30 -VW 002F (VWB) - or - VAG 1603A- Threaded bits TORX-TX30 -VW 002F-
- ◆ 2 Wooden shims 50 x 60 x 200mm -CP-60A-
- ◆ 2 Wooden shims 120 x 120 x 50mm -CP-60B-
- ◆ Torque wrench - 5 to 50 Nm (socket 1/2") -VAG 1331-





2.1 Front door window - Assembly overview

- 1 - Door window glass panel
 - ☐ Remove and install
⇒ [page 163](#)
- 2 - Outer seal
- 3 - Groove
- 4 - Inner seal
- 5 - Door
- 6 - Electric window operation mechanism
 - ☐ Remove and install
⇒ [page 167](#)
- 7 - Washer
 - ☐ 5 parts
- 8 - Pop rivet
 - ☐ 5 parts
 - ☐ Drill the rivet for disassembly
- 9 - Pad
 - ☐ 3.5 Nm
 - ☐ 3 parts
 - ☐ Replace whenever removed
- 10 - Window operation engine
 - ☐ Remove and install
⇒ [page 167](#)



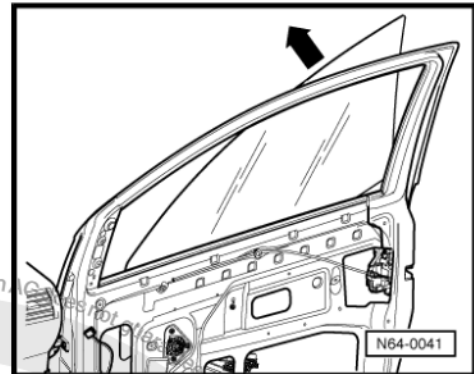
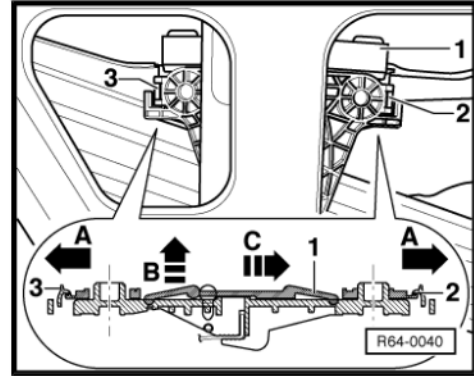
2.2 Front door window glass panel - remove and install

2.2.1 Removal

- Removing front door trim ⇒ Body - internal mountings; Rep. Gr. 70 ; Front door lining - removal and installation
- Remove the sealing membrane ⇒ [page 84](#) .
- Lower the door window glass panel until the support is accessible on the window operation mechanism.



- Unlock the clips -2- and -3- in the direction of the -arrows A- and press the door window glass -1- in the direction of -arrow B-.
 - In case the glass cannot be lowered with the electric window operation switch due to damages, remove the clip -2- through another door opening (if necessary, use a screwdriver or similar tool) and press the door window glass -1- initially in the clip -2-.
 - Then, pull the door window glass towards -C- and press the support towards the clip -3- (oblong).
-
- Lift the door window glass from behind and swing out of door towards the front and in the direction of the -arrow- forward.



2.2.2 Installation

Install by inverting the removal sequence, paying attention to the following:

- After installing the door window glass panel, check the operation of the window operation mechanism.

2.3 Window operation mechanism of ?? comfort system (automatic closing and opening mechanism) with force limiter

On vehicles with window operation mechanism of comfort system, the front window operation mechanisms are also equipped with automatic closing and opening mechanism.

Automatic opening and closing switches for the front window glass panels are at the driver's door operation unit. The switches for the driver's and front passenger's door are equipped with two level functions.

If the respective switch is pressed or pulled to the first level, the front window opens or closes manually.

If the switch is pressed or pulled to the second level, the window opens or closes automatically.

Besides that, there is an additional switch for the passenger's door window on the door.

All electric operation mechanisms are equipped with a force limiter. Window closing is automatically interrupted when an obstacle blocks the closing stroke.

However, that does not serve for window closing operated with the key from the outside. In this case, there is no force limiter.



2.3.1 Function of window operation mechanism with the ignition turned on

Open

Driver door switch:

- Press the switch to the first level. The window glass panel opens while the switch is pressed or when it reaches its final position.
- Briefly press the switch to second level. The window glass panel opens automatically (automatic lowering).
- If the switch is operated again, the window glass panel stops immediately.

Passenger door switch:

- Press the lower surface of the switch. The window glass panel opens while the switch is pressed or when it reaches its final position.

Close

Driver door switch:

- Press the switch to the first level. The window glass panel closes while the switch is pulled or when it reaches its final position.
- Briefly pull the switch to the second level. The window glass panel automatically closes (automatic lifting).
- If the switch is operated again, the window glass panel stops immediately.

Passenger door switch:

- Press the upper surface of the switch. The window glass panel closes while the switch is pressed or when it reaches its final position.

2.3.2 Function of window operation mechanism with the ignition turned off

The window operation mechanisms can still be operated approx. 10 minutes after the ignition is turned off, while the driver's or passenger's door are not opened.

There is no automatic closing function available when closing the window.

If the window glass panels on the driver's or passenger's door can not be closed due to mobility difficulties or presence of obstacles while closing (force limiter), the window glass panel opens immediately.

In this case, the window glass panel can only be closed again if the ignition is turned on.

Window glass panels can still be opened or closed from the outside on vehicles with central lock. In order to do this, just press the key in closing or opening position.



2.3.3 Setting the automatic closing and opening window mechanism



Note

After connecting and disconnecting the battery, the automatic closing and opening mechanism of driver's and passenger's window glass panels are deactivated.

In order to reestablish the function after disconnecting the battery, proceed as follows:

- Lock the vehicle from the outside through the passenger's or driver's door.

In this case, watch that all doors and windows are completely closed.

- Unlock the vehicle and lock it again through the driver's or passenger's door. In this case, the key shall be held for at least one second in closing position.

Automatic closing and opening mechanism of driver's and passenger's windows is activated again.

If there is any fault in the electric window operation mechanism, the light switch on driver's and passenger's door flashes.

For approx. 15 seconds will all lights on door linings flash after ignition is turned on.

2.4 Mobility difficulty at the effort limiter area

Prerequisite:

- The automatic opening and closing mechanism of the windows is regular.
- Ignition turned on.
- Close the door window glass panel with window operation switch (automatic lifting).

If the window glass panels can not be closed due to mobility difficulty or presence of obstacles while closing (force limiter is activated), the window glass panel opens immediately.

- After a window is opened, press and hold the switch of the respective window again within 5 seconds.

If the window glass panel can not be closed due to mobility difficulty or presence of obstacles while closing (force limiter), the window glass panel opens immediately.

- After the window glass panel stops, operate the switch within 5 seconds again in order to close it

The window glass panel is now closed without any force limit on the obstacle.

- Ignition turned off.

If the window glass panel cannot be closed due to mobility difficulty or presence of obstacles while closing (force limiter is active), the window glass panel opens immediately.

Now an internal command using the window operation mechanism switch is blocked.

If the ignition is turned on within 1 minute after the window is opened and the switch pressed (close the window glass panels),

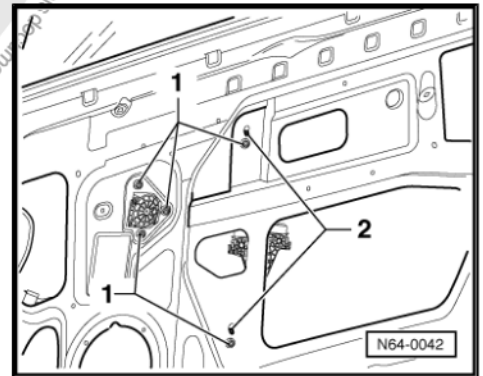


window glass panel closes without the opening automatic mechanism.

2.5 Window operation mechanism - remove and install

2.5.1 Removal

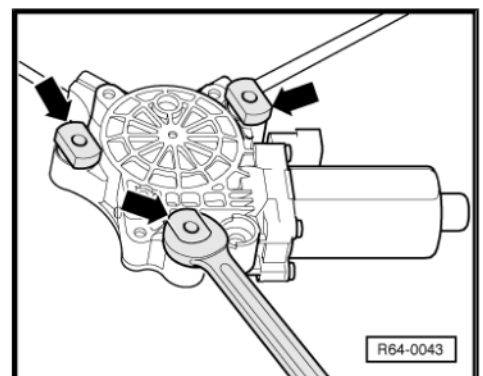
- Removing front door trim ⇒ Body - internal mountings; Rep. Gr. 70 ; Front door lining - removal and installation .
- Remove the sealing membrane ⇒ [page 84](#) .
- Separate the door window glass panel from the window operation mechanism.
- Push the door window glass panel upwards and support it with the Wooden shim 50 x 60 x 200 mm -CP-60A- or the Wooden shim 120 x 120 x 50mm -CP-60B- .
- On the electric window operation mechanism, disconnect the window operation engine through the assembly opening.
- Pierce the pop rivets -1-, raise the door window glass actuating mechanism from the couplers -2- and remove it under and outwards the assembly opening.



2.5.2 Installation

Install by inverting the removal sequence, paying attention to the following:

- Replace the pads -arrows-. Fix the new pad with 3.5 Nm torque.
- Fix the window operation mechanism with pop rivets and washers to the door.
- After installing the door window glass panel, check the operation of the window operation mechanism.



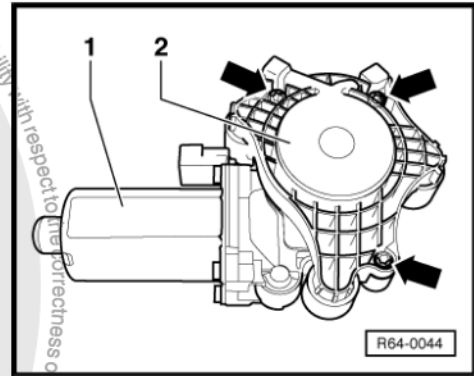
2.6 Window operation engine - remove and install

2.6.1 Removal

- Remove the glass actuating mechanism ⇒ [page 167](#) .



- Loosen the fastening screws -arrows-.
- Remove the motor -1- that actuates the glass -2-.



2.6.2 Installation

Install by inverting the removal sequence, paying attention to the following:

- Tighten the fastening screws with 3.5 Nm of torque.
- Prior to installation of the window operation mechanism, check its operation.

2.7 Rear door window glass panel - assembly overview

1 - Door window glass panel

- ☐ Remove and install
⇒ [page 169](#)

2 - Door window fixed glass panel

- ☐ Remove and install
⇒ [page 171](#)

3 - Lower groove

4 - Insert

5 - Rear guide rail

- ☐ Remove and install
⇒ [page 170](#)

6 - Screw

- ☐ 5.5 Nm

7 - Plug

8 - Door

9 - Electric window operation mechanism

- ☐ Remove and install
⇒ [page 170](#)

10 - Pop rivet

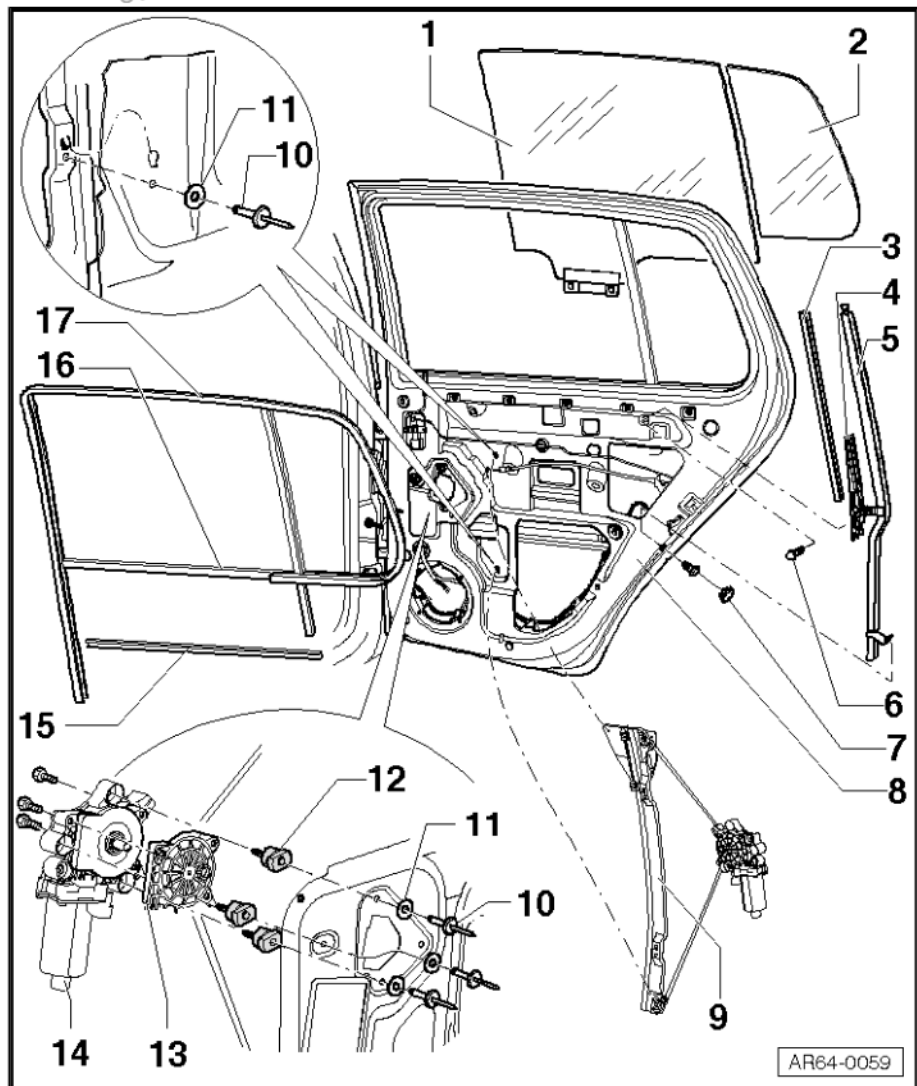
- ☐ 5 parts
- ☐ Drill the rivet for disassembly

11 - Washer

- ☐ 5 parts

12 - Pad

- ☐ 3.5 Nm
- ☐ 3 parts
- ☐ Replace whenever removed





13 - Window operation engine

- ☐ Remove and install ➔ [page 170](#)

14 - Screw

15 - Inner seal

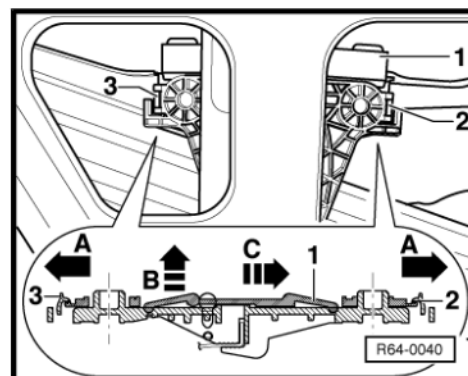
16 - Outer seal

17 - Groove

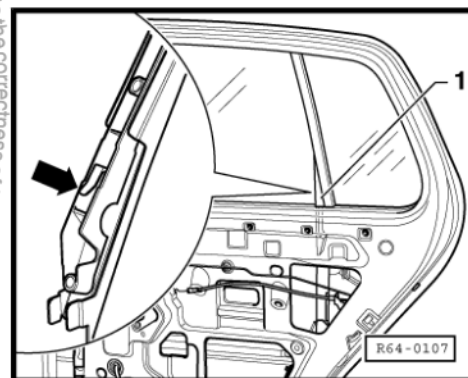
2.8 Rear door window glass panel - remove and install

2.8.1 Removal

- Remove the door lining ➔ Body - internal mountings; Rep. Gr. 70 ; Rear door lining - removal and installation .
- Remove the sealing membrane ➔ [page 128](#) .
- Open the door window glass panel until its support is accessible.
- Unlock the clips -2- and -3- towards the arrows -A- and press the door window glass -1- towards the arrow -B-.
- Remove the upper screw from the rear guide rail.
- Remove the door inner seal.
- Displace the groove upwards on the rear guide rail area.



- Displace the insert -1- pushing it upwards until its lock -arrow- is released.
- Remove the insert.
- Then close the door window glass panel and carefully remove it from the door inner side.



2.8.2 Installation

Installation is carried out in the reverse order of removal.

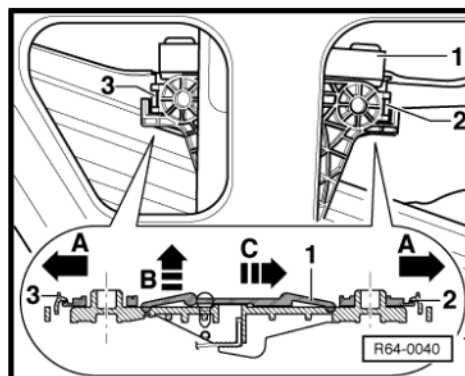
2.9 Rear door electric window operation mechanism - remove and install

2.9.1 Removal

- Remove the door lining ➔ Body - internal mountings; Rep. Gr. 70 ; Rear door lining - removal and installation .



- Remove the sealing membrane ➔ [page 128](#) .
- Lower the door window glass panel until its support is accessible.
- Unlock the clips -2- and -3- towards the arrows -A- and press the door window glass -1- towards the arrow -B-.
- Push the door window glass panel upwards and support it with the Wooden shim 50 x 60 x 200 mm -CP-60A- or Wooden shim 120 x 120 x 50mm -CP-60B- .
- Drill the pop rivets, lift the window operation mechanism from the couplings and remove the set downwards and outwards through the door opening.



2.9.2 Installation

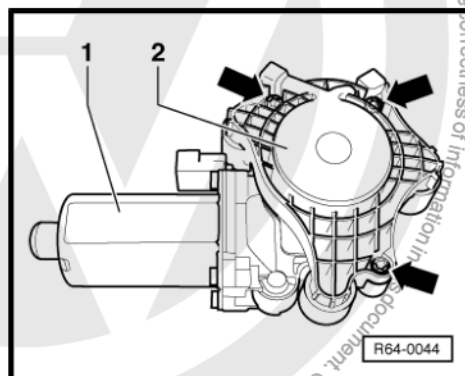
Install by inverting the removal sequence, paying attention to the following:

- Fasten the door window operation with pop rivets and washers.

2.10 Rear door window operation engine - remove and install

2.10.1 Removal

- Remove the window operation
- Loosen the fastening screws -arrows-.
- Remove the motor -1- that actuates the glass mechanism -2-.



2.10.2 Installation

Install by inverting the removal sequence, paying attention to the following:

- Tighten the fastening screws with 3.5 Nm of torque.
- Prior to installation of the window operation mechanism, check its operation.

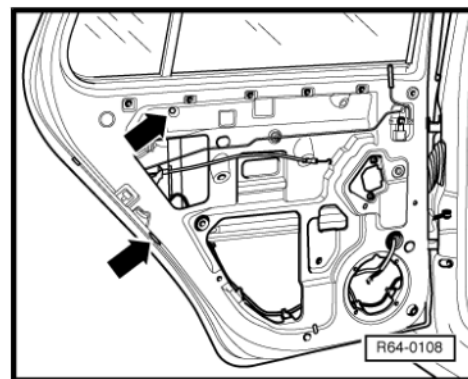
2.11 Rear door window rear guide rail - remove and install

2.11.1 Removal

- Remove the rear door window glass ➔ [page 169](#) .



- Remove the screws from the rear guide rail -arrows-.
- Remove the upper groove of the rear door window along with the fixed glass panel.
- Remove the rear guide rail and disengage it from the door.



2.11.2 Installation

Installation is carried out in the reverse order of removal.

2.12 Rear door fixed glass panel - replace

2.12.1 Removal

- Remove the rear guide rail from the rear door window glass
⇒ [page 170](#) .
- ?Disengage the rear door window glass panel along with the groove.

2.12.2 Installation

- Fit the rear door window glass panel along with the groove.
- Install the rear guide rail of the rear door window glass
⇒ [page 170](#) .

2.13 Front door window groove - remove and install

2.13.1 Removal

- Remove the door glass ⇒ [page 163](#) .
- Carefully detach and remove groove.

2.13.2 Installation

- Install in reverse order as of the removal.

2.14 Front door window glass inner weather-strip - replace

2.14.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .
- Remove packing detaching it from door.

2.14.2 Installation

- Install in reverse order as of the removal.



2.15 Front door window glass outer weather-strip - replace

2.15.1 Removal

- Unfit packing and take it off.

2.15.2 Installation

- Install in reverse order as of the removal.





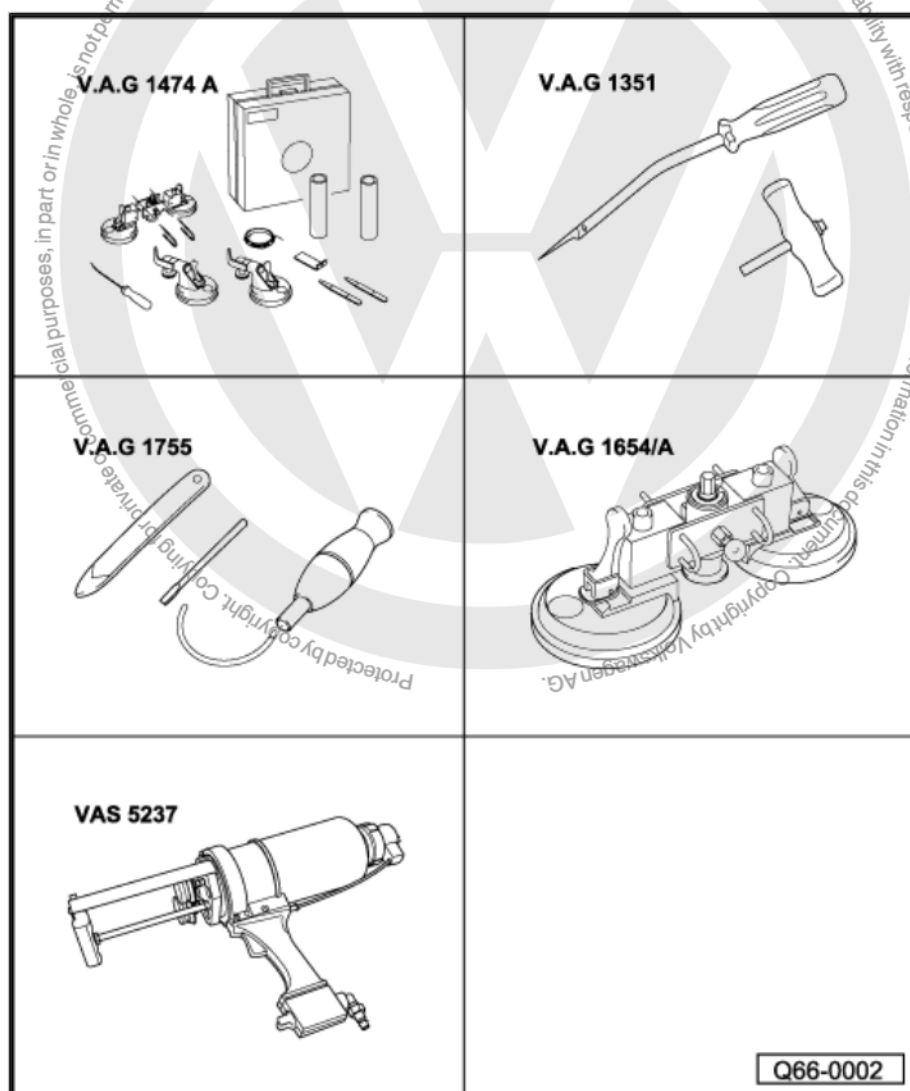
66 – External equipment

1 Spoiler

1.1 Spoiler - ??assembly overview

Special tools and workshop equipment required

- ◆ Anchor tool -VAG 1351-
- ◆ Windshield removal tools - V.A.G 1474A- or Reeling appliance -VAG 1654A-
- ◆ Windshield removal set - VAG 1755-
- ◆ Adhesive pneumatic dispenser -VAS 5237-



1.1.1 Materials

- ◆ 2K- adhesive -DA 004 600 A2- ¹¹⁾
- ◆ Mixer tube -D 002 001- ¹³⁾
- ◆ Activator -D 181 801 A1-
- ◆ Primer -AMV 181 655-
- ◆ Cleaning solution -D 009 401 04-
- ◆ Cotton swab for cleaning -M 209 6235-3-



- ◆ Primer dispenser -D 009 500 25-
- ◆ Adhesive remover -D 002 000 10-
- ◆ Cutting cord -357 853 999 A-

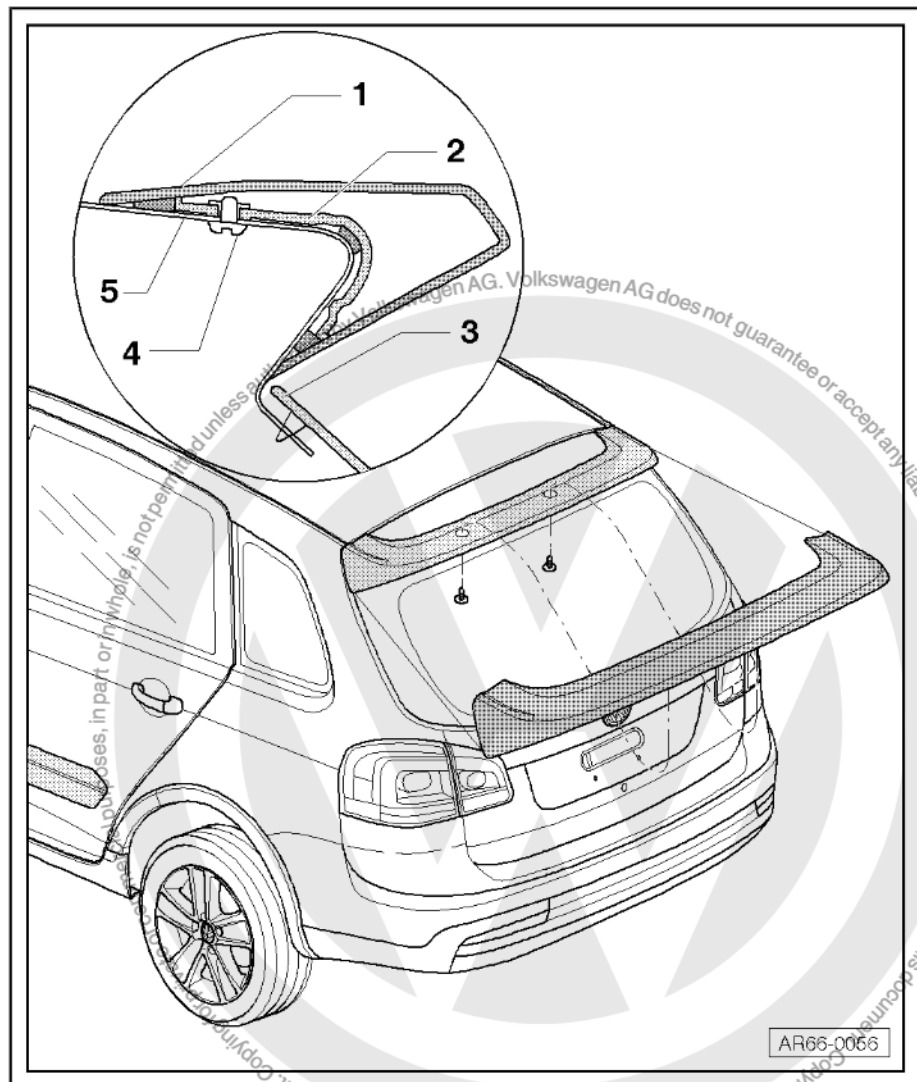
11) Materials are part of the case -D 004 700-

12) ¹²⁾Ensure minimum drying time.

13) The Adhesive pneumatic dispenser -VAS 5237- must be used with these materials.

1.1.2 Spoiler - ??assembly overview

- 1 - Spoiler
 - ☐ Remove
 - ☐ Install
 - ☐ Installation instructions
⇒ [page 175](#)
 - ☐ Material: ABS + PC
- 2 - Spoiler area on which the adhesive/primer is applied
 - ☐ Preparation
⇒ [page 175](#)
- 3 - Vehicle back glass representation
- 4 - Screw
 - ☐ 2 units
 - ☐
- 5 - Vehicle body representation



1.1.3 Spoiler - removal

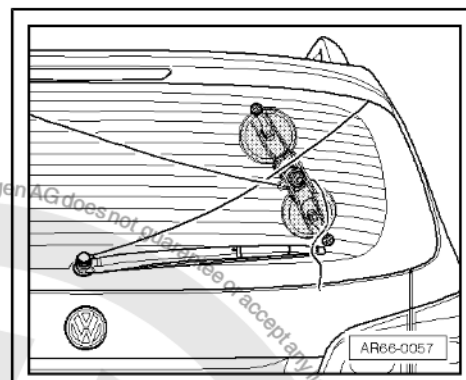


WARNING

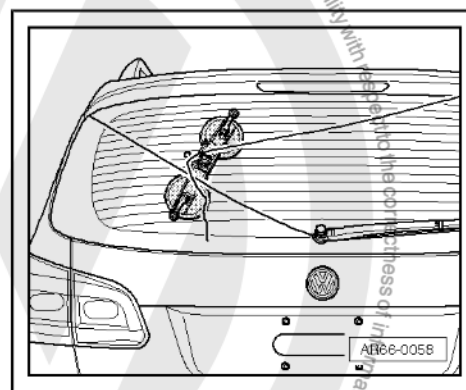
Never use any sort of metallic cutting wire for spoiler removal under risk of damaging the paint.



- Clean spoiler support area so that there are no damages to the painting by removal.
- Protect rear hood and roof painting around the spoiler.
- Position the Reeling appliance -VAG 1654A- according to indicated in illustration and secure one end of cutting wire. The left end must be secured at the axle of the rear window wiper rubber blade.
- Press cutting thread between the spoiler and rear hood with plastic wedge during cutting process.
- Keep cutting wire traction up the half of vehicle approximately.



- Reposition the Reeling appliance -VAG 1654A- according to indicated in illustration and start cutting by the other side.
- Carefully lift spoiler off.



1.1.4 Spoiler - installation



Note

Use recommended materials OF ONLY ONE BRANCH along the entire installation process. Use of products from different branches along the same procedure is not allowed.



Preparing rear hood surface

- Perform a thoroughly cleaning of the spoiler installation area.



Note

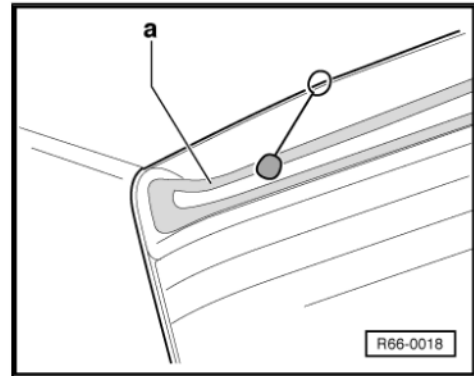
Previous adhesive layer serves as anchorage for the new cord. Areas where the adhesive will be applied must be completely free of dirt or grease.

In case spoiler installation is not carried out right after cutting the previous adhesive layer -nd-, it will be activated with the activator -D 181 801 A1- .



WARNING

The activator may not have contact with the painted surface. Otherwise, painting will be damaged.



- ◆ In case rear hood is replaced or repainted, apply the primer for body -D 009 200 02- with applicator -D 009 500 25-

Preparing spoiler surface

- Clean vehicle and spoiler application surface using a clean cloth moistened with isopropyl alcohol.

Allow time for the alcohol to evaporate.

- Apply primer to the inner portion of the spoiler.

Wait max. 5 minutes for the primer drying.

- Using the applicator, apply an adhesive cord (PU) according to the illustration
- Spoiler must be installed, immediately after applying the adhesive cord.

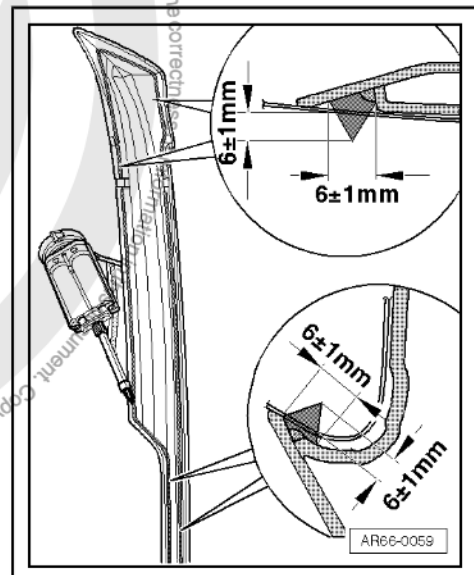
Installation



Note

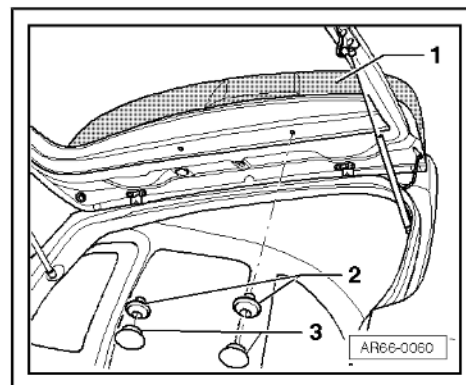
Spoiler must be installed within max. of 6 minutes after application of adhesive cord.

- Adjust spoiler -1- on rear hood surface.
- Install the 2 screws -2- and tighten them with the torque of 3 Nm.

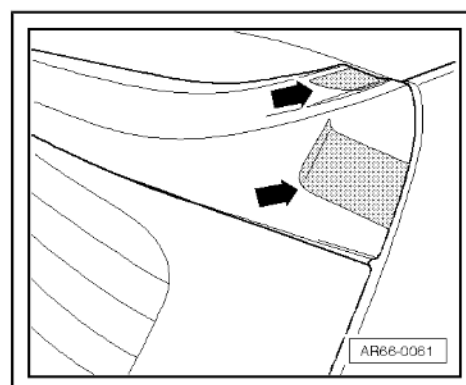




- Install the 2 screws -3-.



- Reinforce side fittings of spoiler at the ends of rear hood by using adhesive tapes of cotton -arrows-, as shown in the illustration.



- Carefully install the auxiliary device to the spoiler fitting.

Adhesive drying period



Note

- ♦ Minimum curing time of adhesive is 3 hours. This is the period between spoiler installation and the permission to move vehicle in the dealer's place. Along this period vehicle must be leveled and ambient temperature of 15° C min.
- ♦ Vehicle's delivery permission for the customer must be released only after 16 hours from spoiler installation.

Repair paint damages

Repaint following procedures described in the → Painting Manual.

In case damages to the painting are located at non visible external areas, apply body primer -D 009 200 02-.

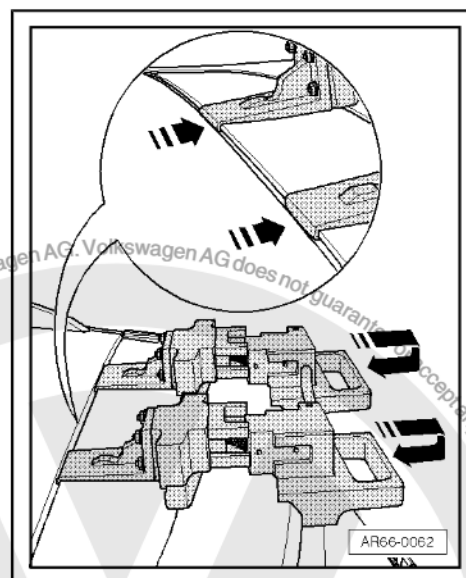
Cleaning off surplus adhesive sealing material

- Painted surfaces must be cleaned with a dry and clean cloth. Clean other areas with the adhesive remover -D 002 000 10-.



Note

The adhesive remover -D 002 000 10- is the cleaning agent. All safety rules must be observed.

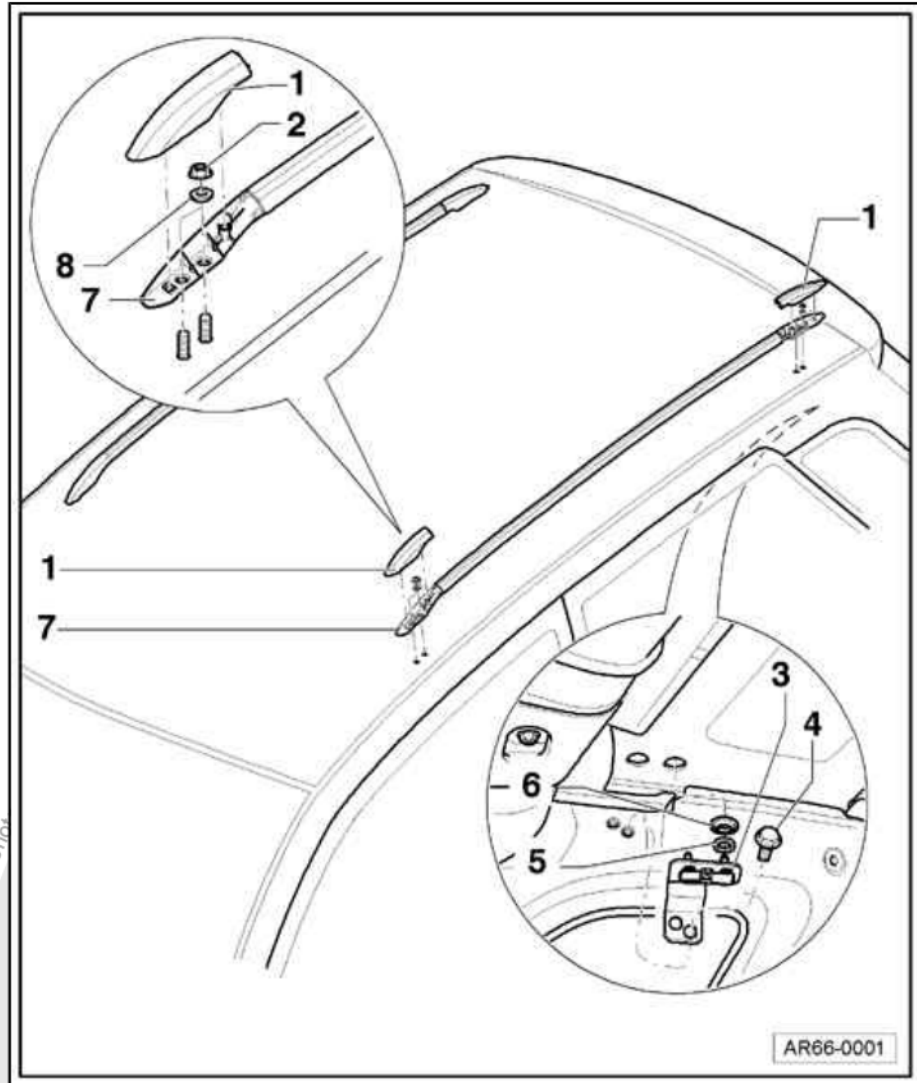




2 Luggage compartment

2.1 Luggage compartment - assembly overview

- 1 - Securing cover
- 2 - Nut
 - 25 Nm
- 3 - Support
- 4 - Screw
 - 20 Nm
- 5 - Washer
- 6 - Ball washer
- 7 - Luggage compartment
 - Remove the securing covers and loosen the nuts for removal
- 8 - Ball washer

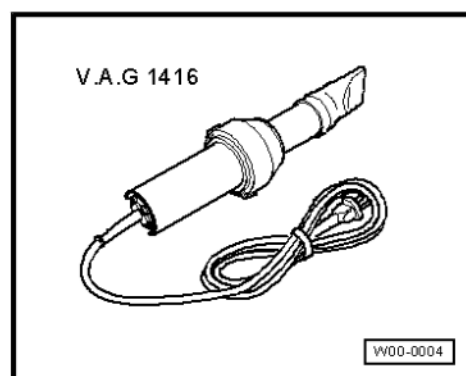




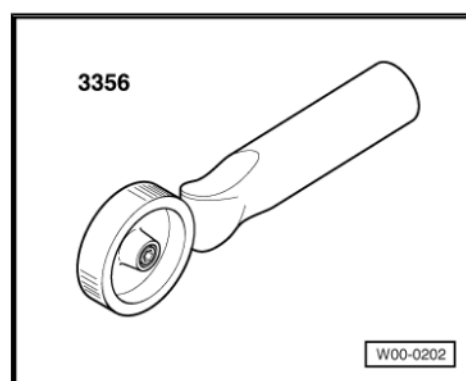
3 Labels

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-



3.1 Labels of the model (up to model-year 2010) - replace

3.1.1 Removal



Note

Before removal, the label should be heated with the Blow pipe - VAG 1416-

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10-, apply the Cleaning solution -D 009 401 04-. Rub the surface with a cloth until drying it completely.



3.1.2 Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356-

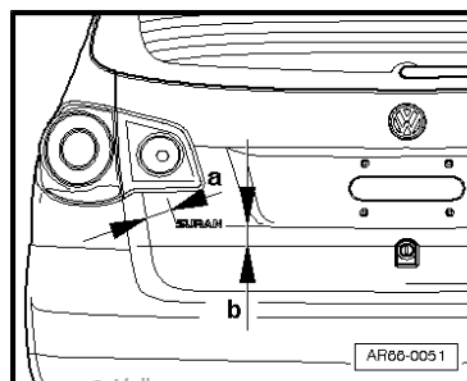
a = 38 mm

b = 45 mm



Note

The quotas are the same for the label "SPACEFOX" and "SPORT-VAN".



3.2 Labels of the model (up from model-year 2011) - replace

Removal



Note

Before removal, the label should be heated with the Blow pipe - VAG 1416-

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10-, apply the Cleaning solution -D 009 401 04-. Rub the surface with a cloth until drying it completely.

Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356-

a = 27.1 mm

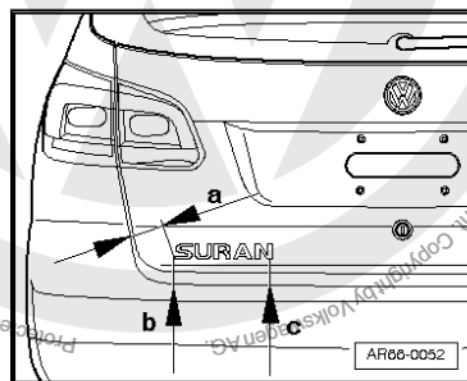
b = 49.9 mm

c = 86.9 mm



Note

The quotas are the same for the label "SPACEFOX".



3.3 Label 1.6 (only for Suran and Sportvan vehicles) - Replace

Removal



Note

Before removal, the label should be heated with the Blow pipe - VAG 1416-

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10-, apply the Cleaning solution -D 009 401 04-. Rub the surface with a cloth until drying it completely.



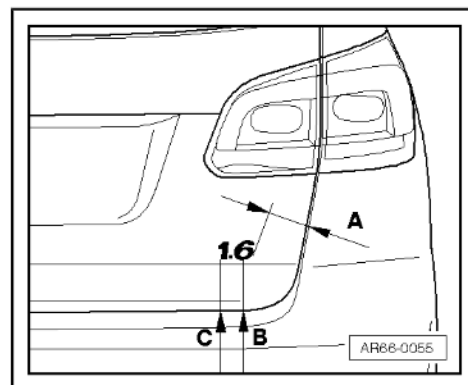
Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356- .

a = 30 mm

b = 65.6 mm

c = 82.8 mm



3.4 Label "Total flex" - Replace

Removal



Note

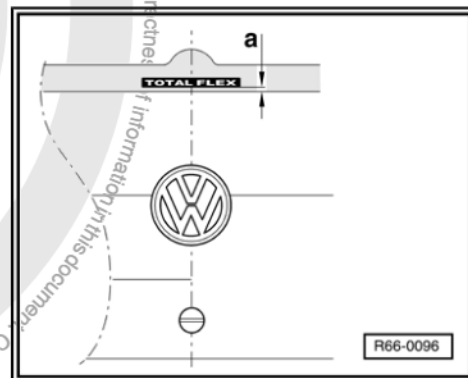
Before removal, the label should be heated with the Blow pipe - VAG 1416- .

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10- , apply the Cleaning solution -D 009 401 04- . Rub the surface with a cloth until drying it completely.

Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356- .

a = 6 mm



3.5 Label of Plus version (side) - replace

Removal



Note

Before removal, the label should be heated with the Blow pipe - VAG 1416- .

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10- , apply the Cleaning solution -D 009 401 04- . Rub the surface with a cloth until drying it completely.



Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356- .

a = 20 mm

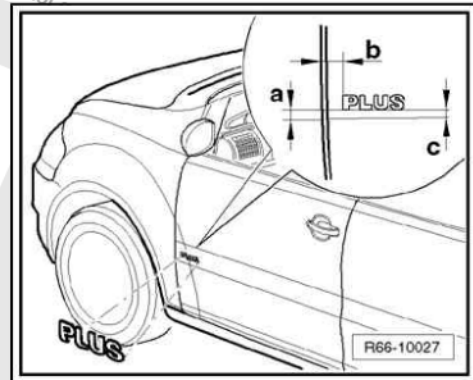
b = 50 mm

c = 19 mm



Note

The quotas are the same for the labels "SPORTLINE", "COMFORTLINE", "TRENDLINE" and "HIGHLINE".



3.6 Label "I motion" - Replace

Removal



Note

Before removal, the label should be heated with the Blow pipe - VAG 1416- .

- Unglue the label with a plastic spatula.
- Clean the tailgate with the Adhesive remover -D 002 000 10- , apply the Cleaning solution -D 009 401 04- . Rub the surface with a cloth until drying it completely.

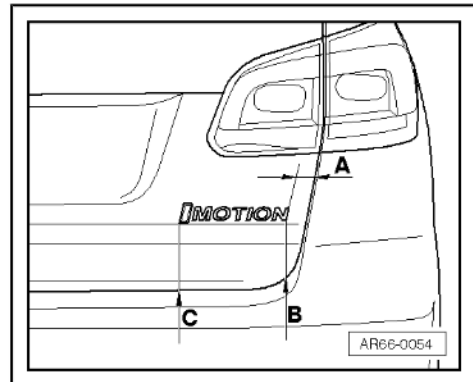
Installation

- Remove the liner from the double faced adhesive tape and glue the label as indicated. Use the Press tool -3356- .

a = 27.2 mm

b = 56.9 mm

c = 91.2 mm

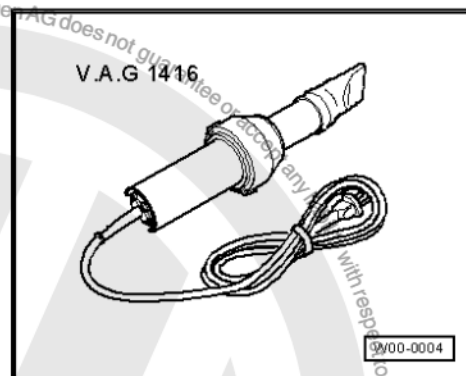




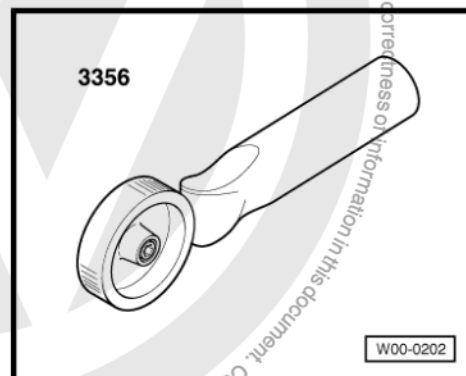
4 Trim and side strips (Space Cross and Suran Cross)

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-



4.1 Rear side panel frieze - replace



1 - Rear side panel frieze

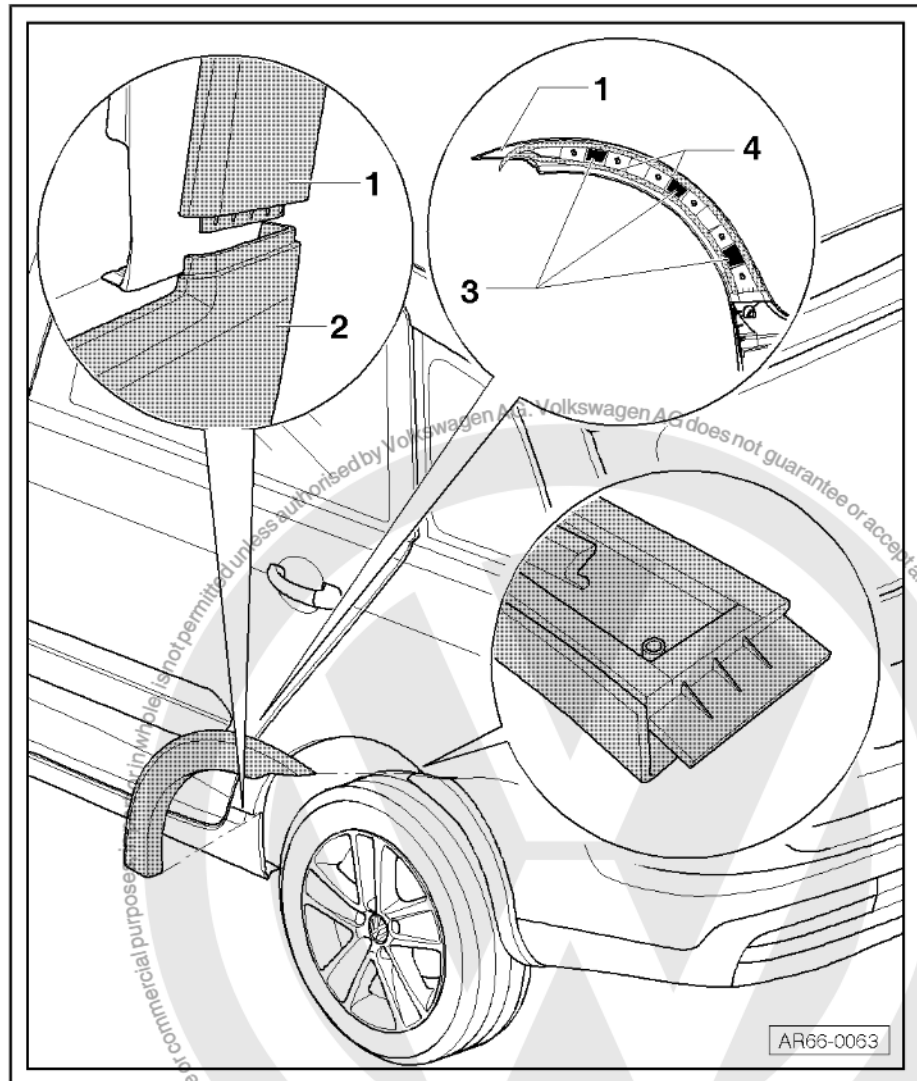
- ☐ Self-adhesive
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .
- ☐ Remove adhesive tape liner and place the strip. Approximate operation temperature. 20°C.

2 - Side trim middle

3 - Location of adhesive application PU

4 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.





4.2 Front fender stripe-accent - replace

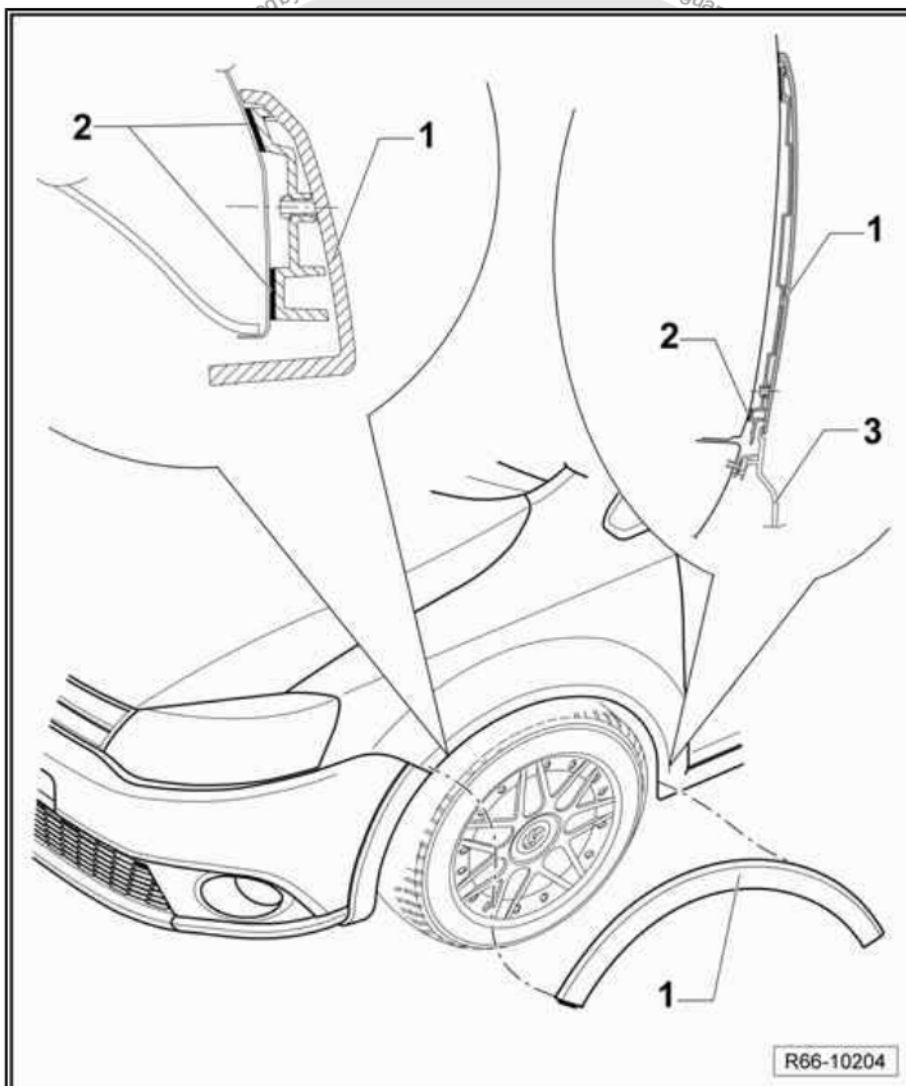
1 - Front fender stripe-accent

- ☐ Self-adhesive
- ☐ Before removal, the stripe should be heated with the thermal blower -VAG 1416- .
- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .
- ☐ Remove adhesive tape liner, place the stripe. Approximate operation temperature. 20°C.

2 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

3 - Side strip (side strip lining)



R66-10204



4.3 Side strip (front and middle) - Assembly overview

1 - Side strip

- ☐ Side strip and lining are removed as a unit
- ☐ Remove and install

2 - Screw

- ☐ 6 Nm

3 - Riveted nut

- ☐ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT -EQ 7422-

4 - Nut

- ☐ 6 Nm

5 - Screw

6 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

7 - Bushing

8 - Fastening pin

9 - Front fender stripe-accent

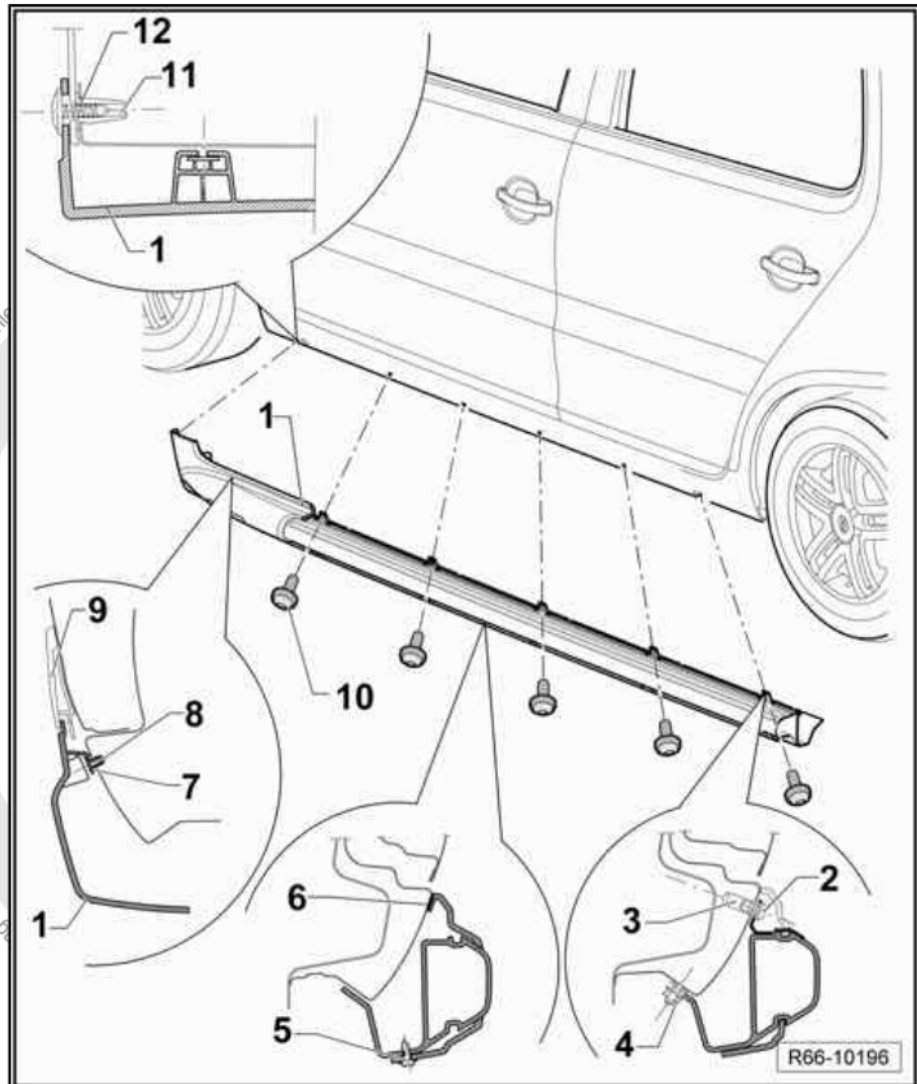
10 - Screw

- ☐ 6 Nm

11 - Bushing

12 - Screw

- ☐ 1.5 Nm





4.4 Side strip (rear) - Assembly overview

1 - Riveted nut

- ☐ To install, use the Pop rivet nut pliers POP NUT -VAG 1765B- or Pop rivet nut pliers POP NUT - EQ 7422-

2 - Screw

- ☐ 6 Nm

3 - Lock pin

4 - Strip lining

- ☐ Self-adhesive and attached with a screw -4-.
- ☐ Whenever strip is removed, lining must be replaced.
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Clean the area where lining will be applied with the adhesive remover - D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .
- ☐ Approximate operation temperature. 20°C.

5 - Screw

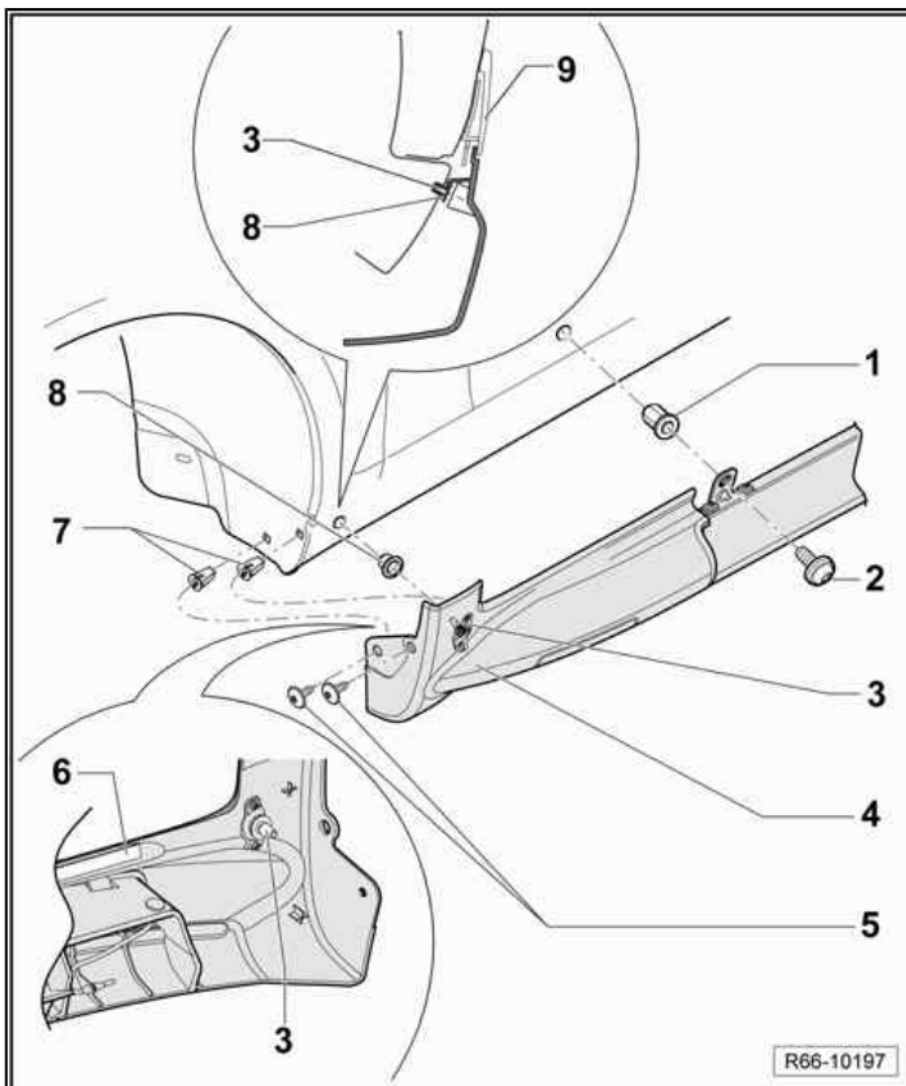
- ☐ 1.5 Nm

6 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

7 - Bushing

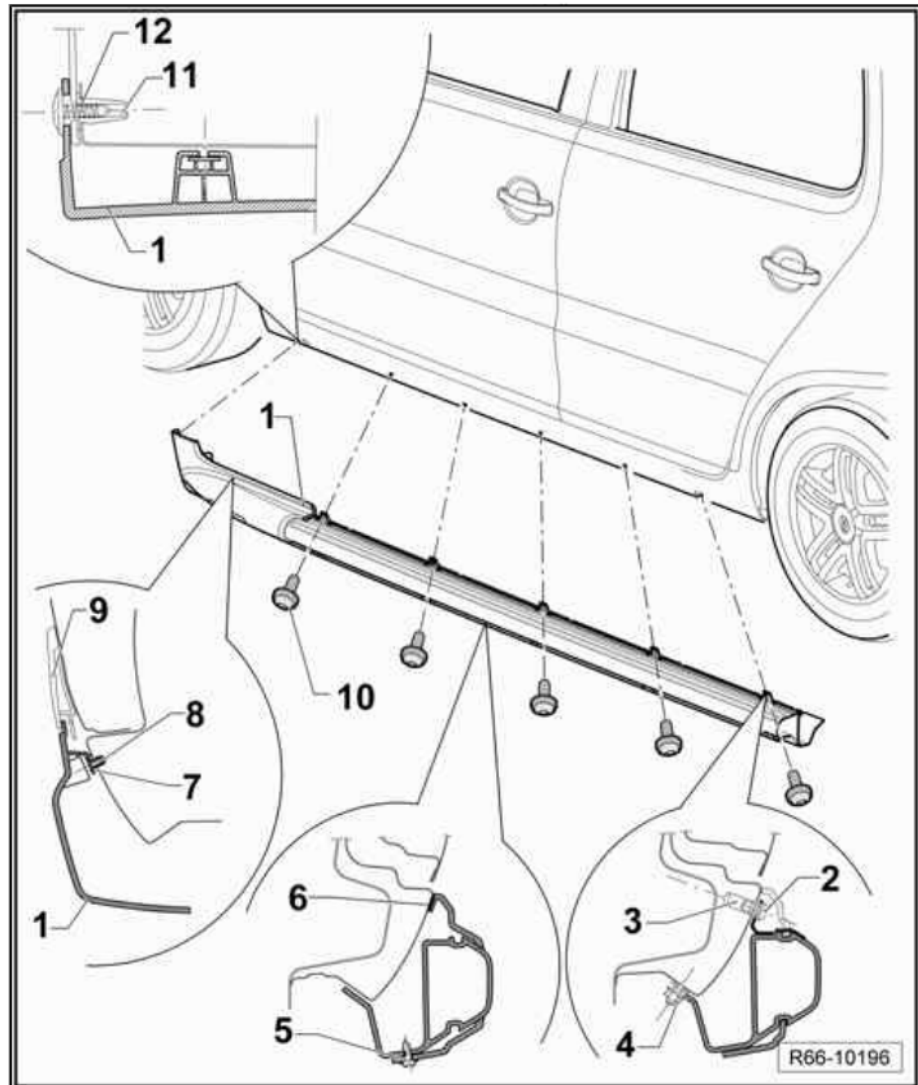
8 - Bushing



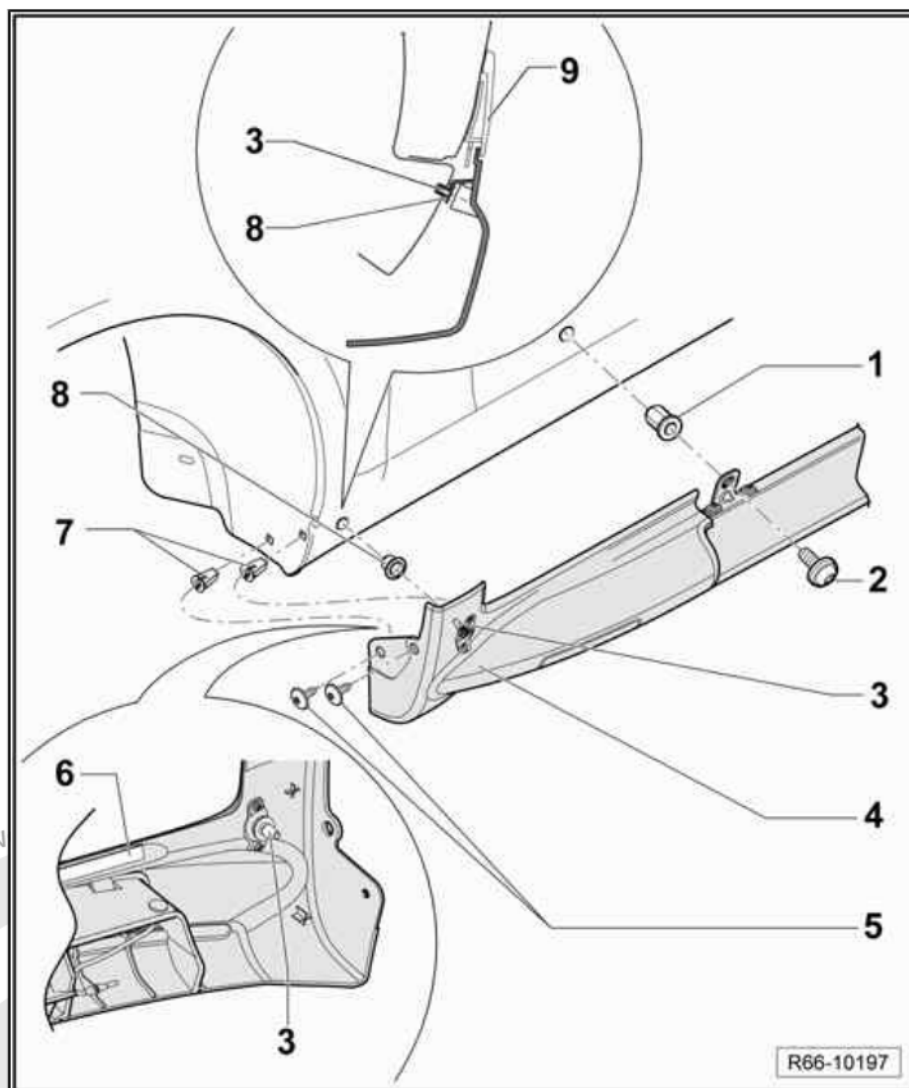
4.5 Side strip (front and middle) - replace

4.5.1 Removal

- Remove strip rear lining ➔ [page 193](#) .



- Remove side strip upper lining ➔ [page 194](#) .
- Remove the nuts -4- and screws -10-. Another technician will keep strip hanging until removal.



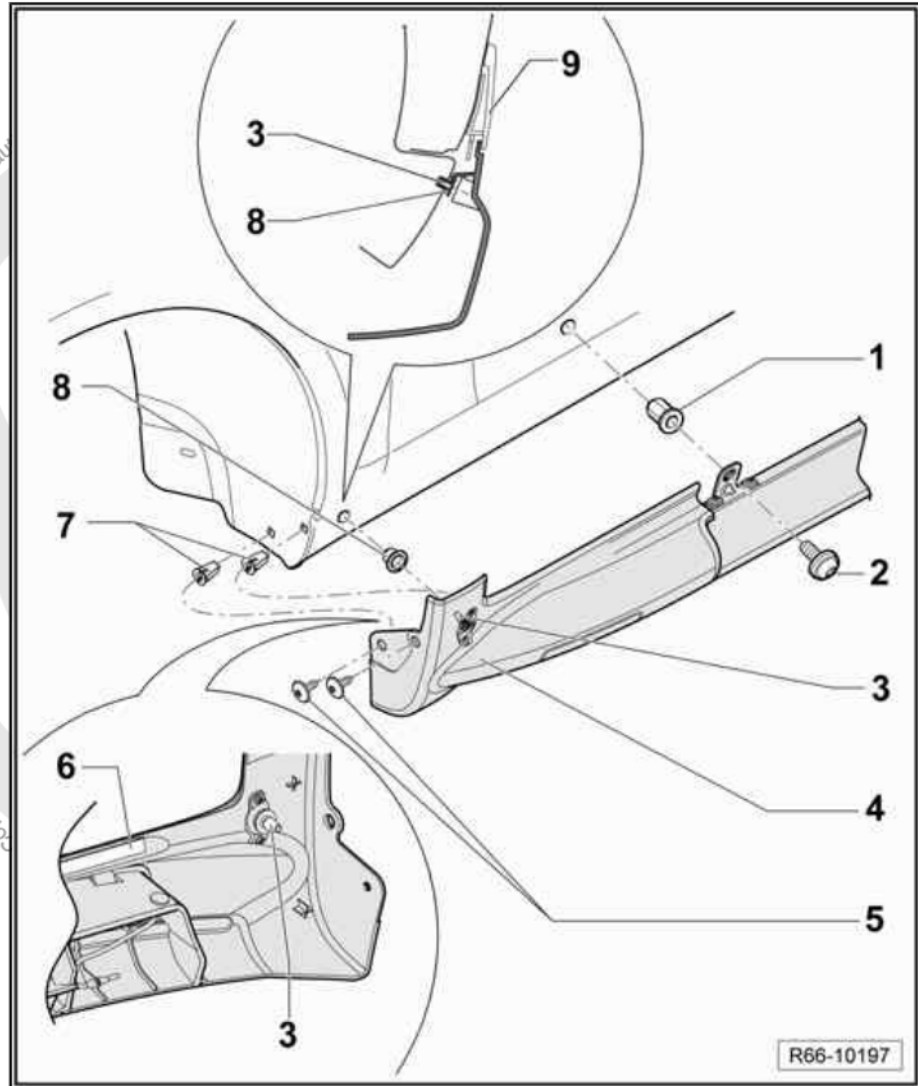
- Remove screws -5-.
- Remove the screw -2-.
- Unglue lining from strip -4- heating it with the thermal blower - VAG 416- .

4.5.2 Installation

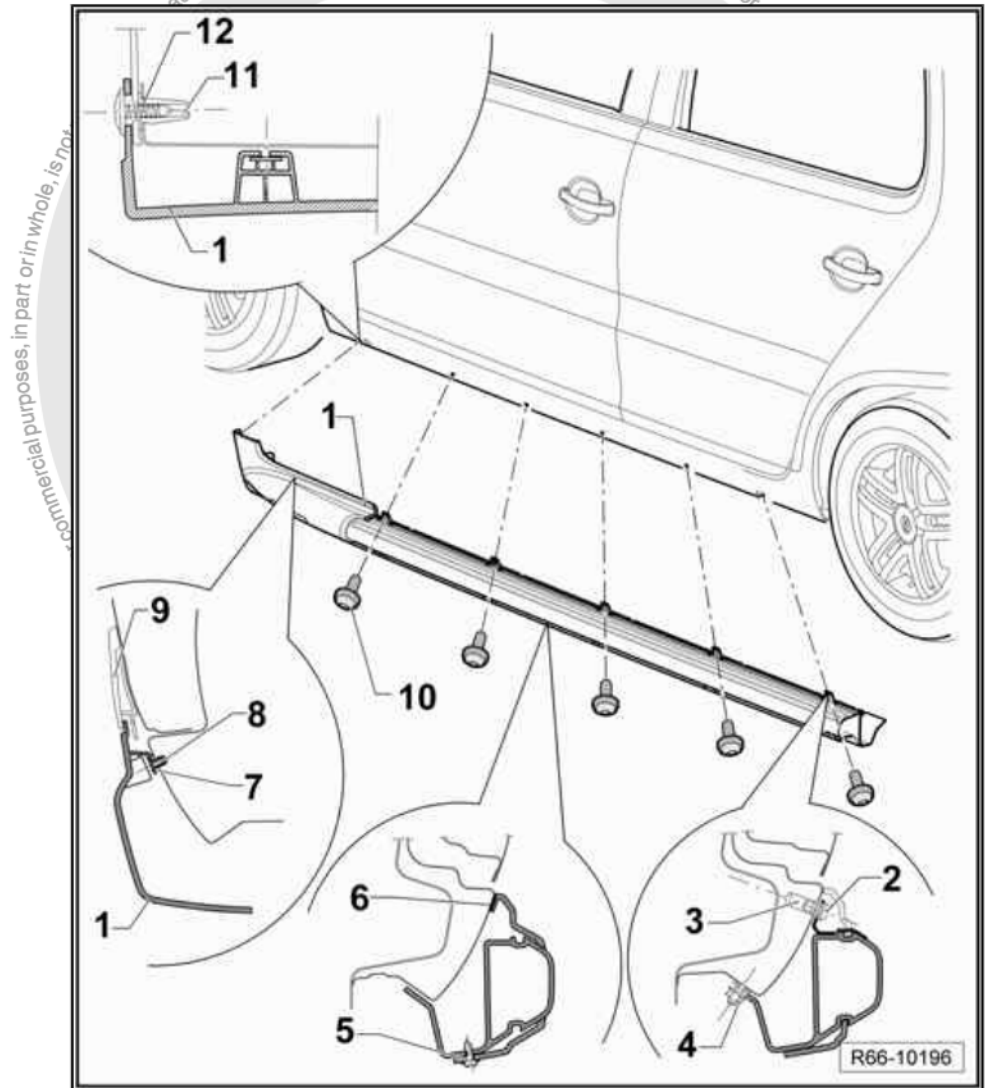
- Clean the gluing area of strip lining in the body with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .



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- Heat the strip lining -4- with thermal blower -VAG 1416- .
- Place strip and install screw -2-.
- Install the screws -5-.

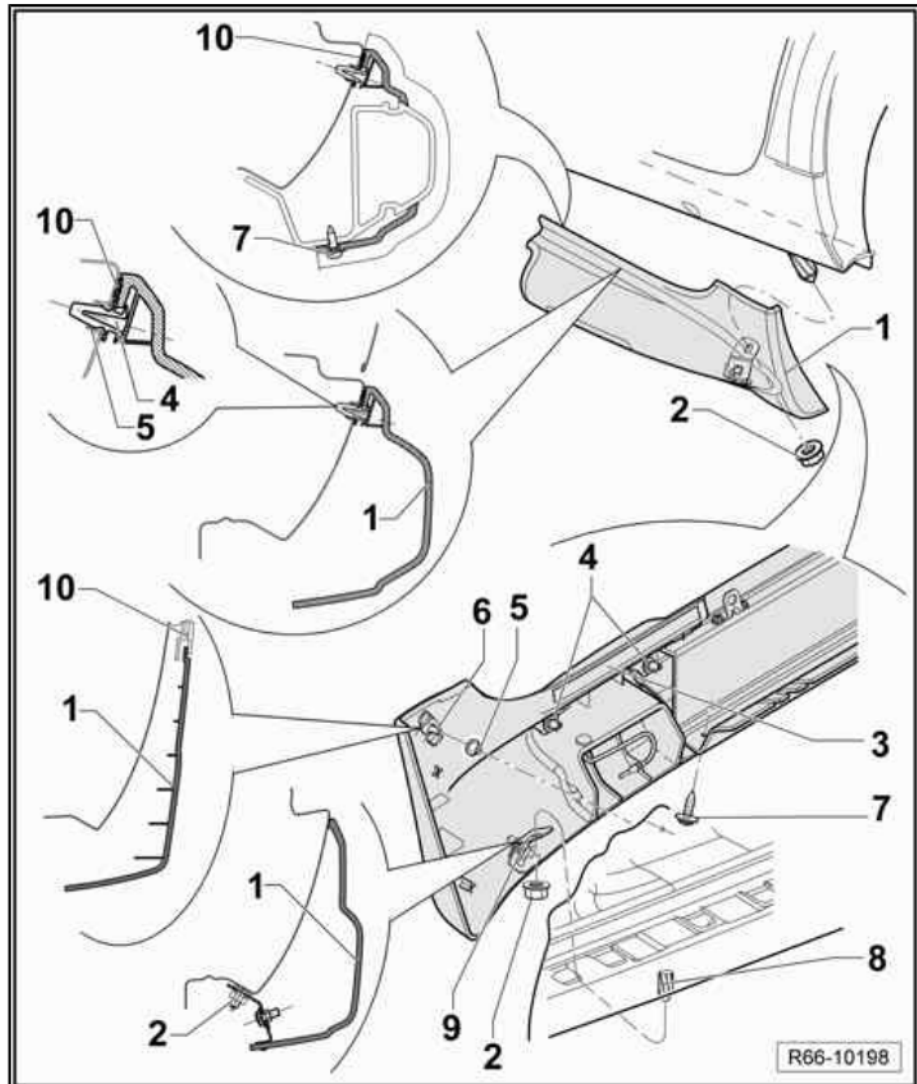


- Install nuts -4- and screws -8-.
- Heat the strip upper lining -3- with thermal blower -VAG 1416-
- Press upper lining and strip lining against body with the press tool -3356- .
- Install strip rear lining.



4.6 Side strip rear lining - Assembly overview

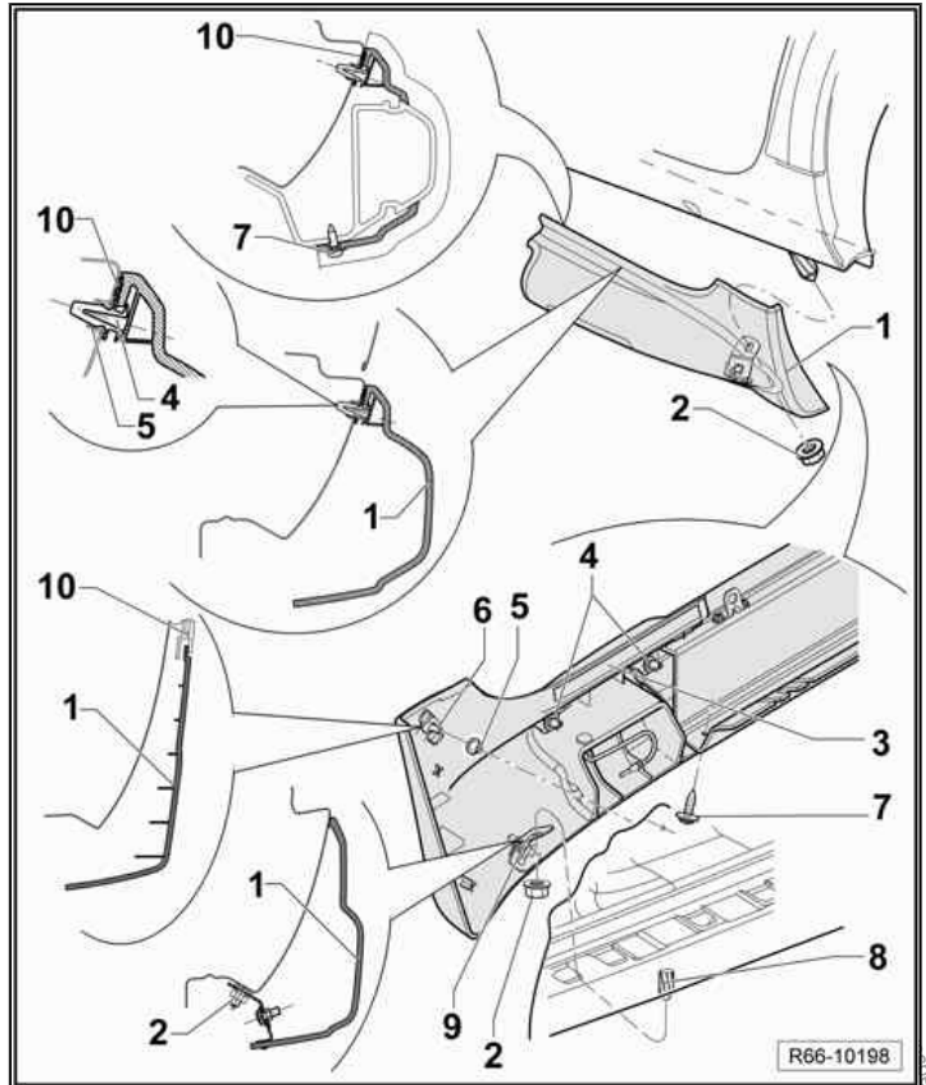
- 1 - Side strip rear lining
 - ❑ Replace ➔ [page 193](#)
- 2 - Nut
 - ❑ 6 Nm
- 3 - Double-face tape
 - ❑ The area where the adhesive tape is glued must be free of dirt
 - ❑ The self-adhesive surface of the tape should not be touched anyway.
- 4 - Fastening clamp
- 5 - Pressure clamp
- 6 - Lock pin
- 7 - Screw
 - ❑ 3 Nm
- 8 - Stud
- 9 - Lining support
 - ❑ riveted in the lining
- 10 - Rear side panel frieze





4.7 Side strip rear lining - replace

4.7.1 Removal

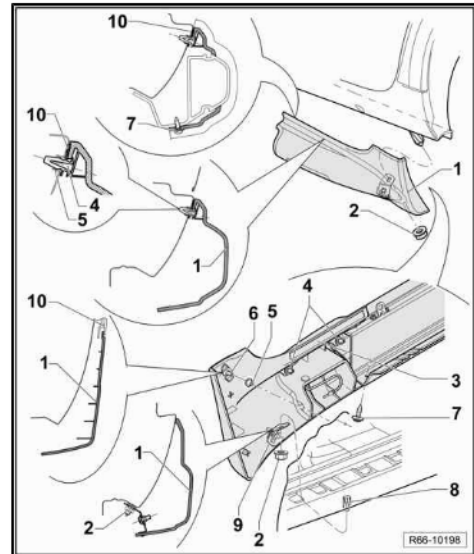


- Remove the screw -7- and nut -2-.
- Unglue rear lining from side strip, 1- heating it with the thermal blower -VAG 1416- .



4.7.2 Installation

- Clean the gluing area of strip rear lining in the body with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .
- Heat the strip rear lining -1- with thermal blower -VAG 1416- .
- Place rear lining and install screw -7- and nut -2-.
- Press strip rear lining against body with the press tool -3356- .



4.8 Side strip upper lining - replace

1 - Side strip upper lining

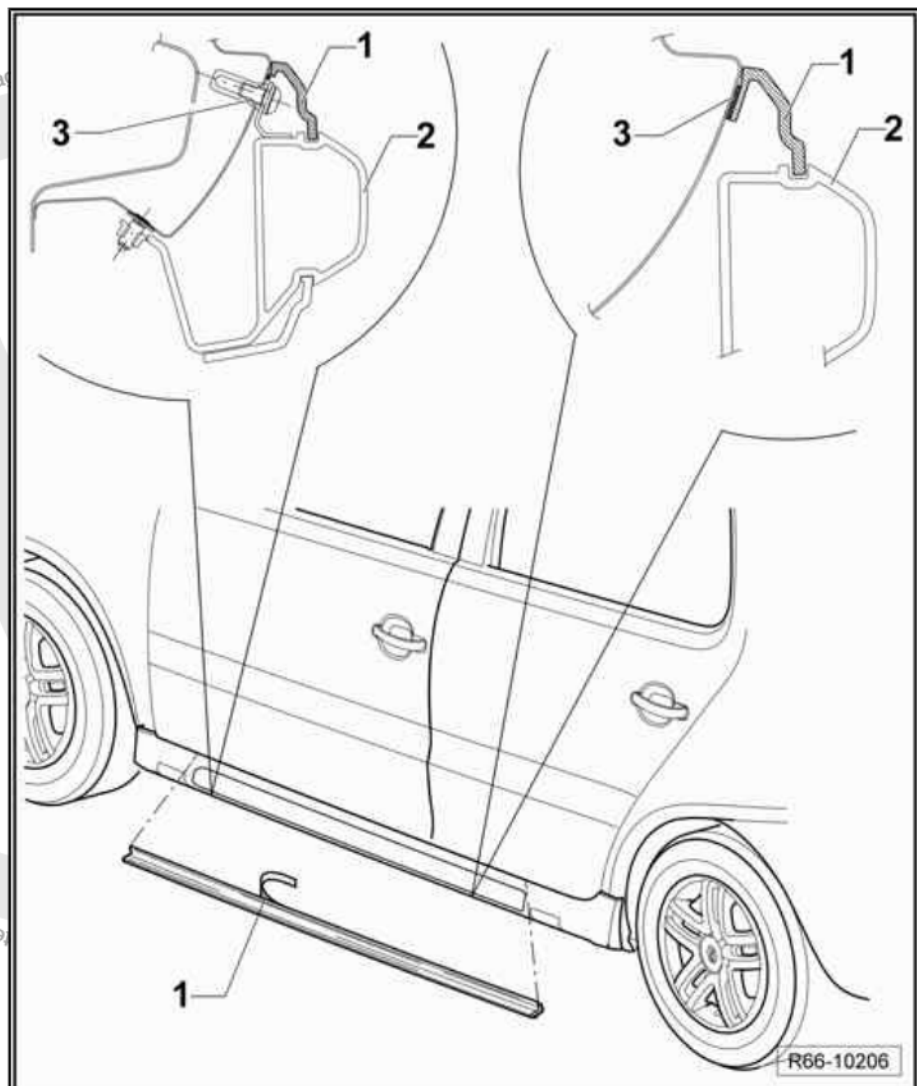
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Clean the area where lining will be applied with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .
- ☐ Approximate operation temperature. 20°C.

2 - Side strip

- ☐ Replace ➔ [page 187](#)

3 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

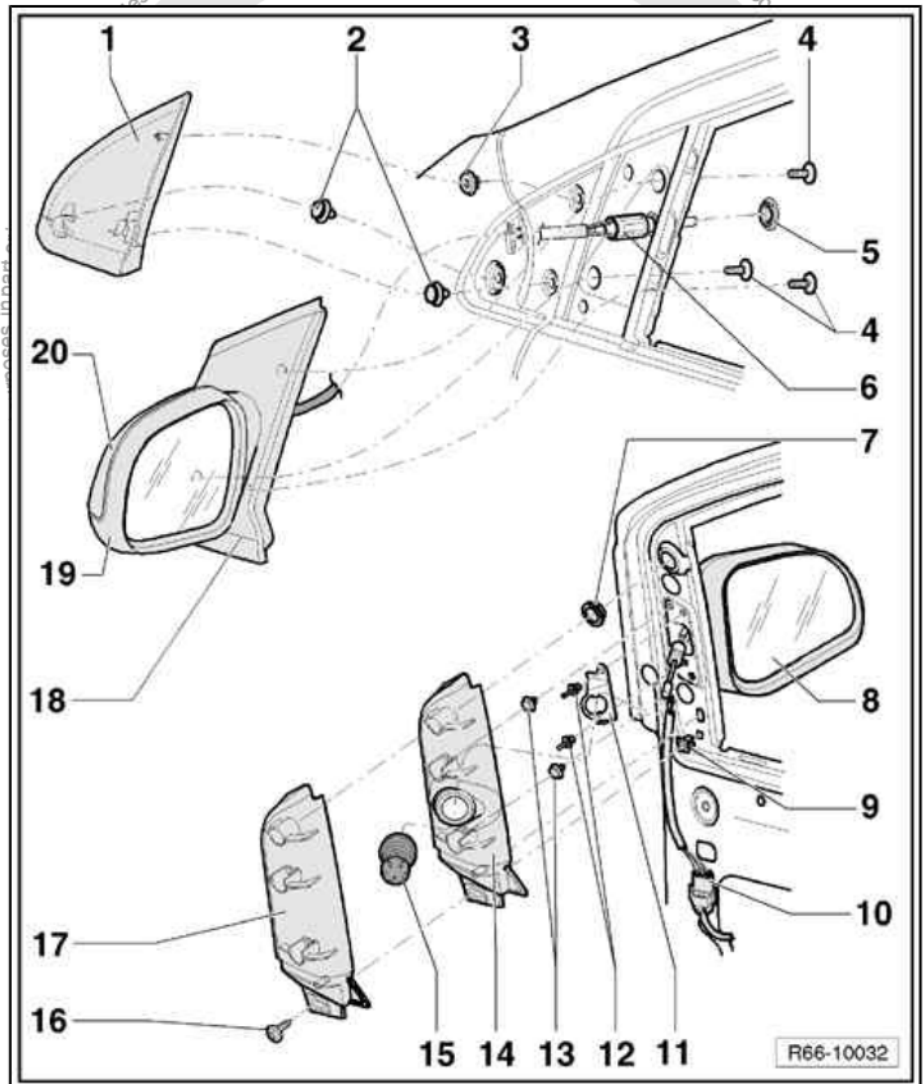




5 ?External rear-view mirror

5.1 Outer rearview mirror (up to model-year 2010) - assembly overview

- 1 - Finish cover
- 2 - Clamp
 - ☐ 2 parts
- 3 - Bushing
- 4 - Screw
 - ☐ 3 parts
 - ☐ 2.5 Nm
- 5 - Nut
- 6 - Inner operation
- 7 - Bushing
- 8 - Mirror glass
 - ☐ fitted for both versions (manual and electric operation)
 - ☐ remove and install [⇒ page 201](#)
- 9 - Bushing
- 10 - Connector
 - ☐ in the version equipped with electric control
- 11 - Operation support
 - ☐ in the version equipped with manual control
- 12 - Blind rivet
 - ☐ 2 parts
 - ☐ in the version equipped with manual control
- 13 - Clip
 - ☐ 2 parts
- 14 - Mirror fitting cover
 - ☐ in the version equipped with manual control
 - ☐ with opening to the actuating rod
- 15 - Control knob
 - ☐ in the version equipped with manual control
 - ☐ fitted to the actuating rod
- 16 - Screw
 - ☐ 2.5 Nm
- 17 - Mirror fitting cover
 - ☐ in the version equipped with electric control
- 18 - ?External rear-view mirror
 - ☐ remove and install [⇒ page 197](#)





19 - Mirror frame

20 - Mirror cover

- ☐ remove ⇒ [page 199](#)

5.2 Outer rearview mirror (up from model-year 2011) - assembly overview

1 - Inner operation

2 - Screw

- ☐ 3 parts
- ☐ 2.5 Nm

3 - Nut

- ☐ 1 part
- ☐ 2.0 Nm

4 - Control attaching bracket

- ☐ in the version equipped with manual control

5 - Bushing

6 - Mirror glass

- ☐ fitted for both versions (manual and electric operation)
- ☐ remove and install ⇒ [page 202](#)

7 - Bushing

8 - Power rearview mirror wiring harness connector

9 - Pop rivet

- ☐ 2 parts
- ☐ in the version equipped with manual control

10 - Clamp

11 - Mirror fitting cover

- ☐ in the version equipped with manual control

12 - Control knob

- ☐ in the version equipped with manual control
- ☐ fitted to the control actuating rod

13 - Screw

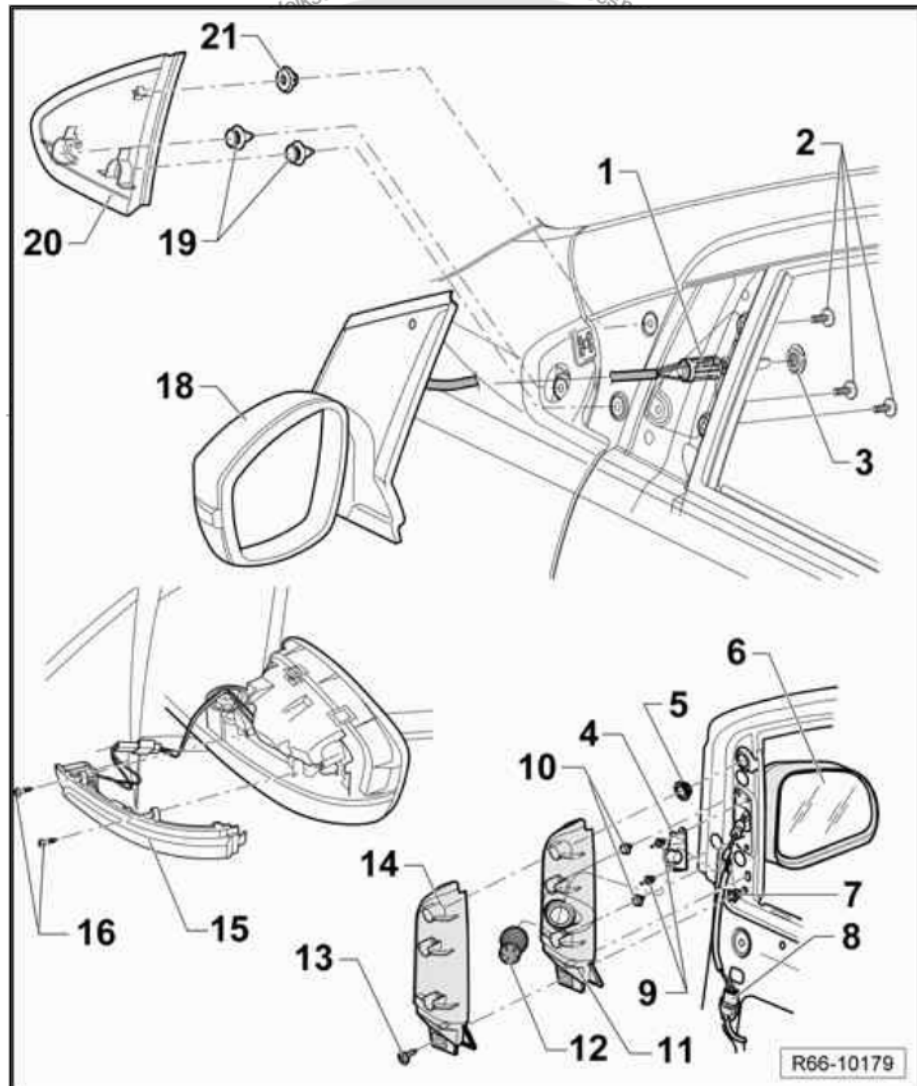
14 - Mirror fitting cover

- ☐ in the version equipped with electric control

15 - Turn signal light

16 - Screw

- ☐ 2 parts



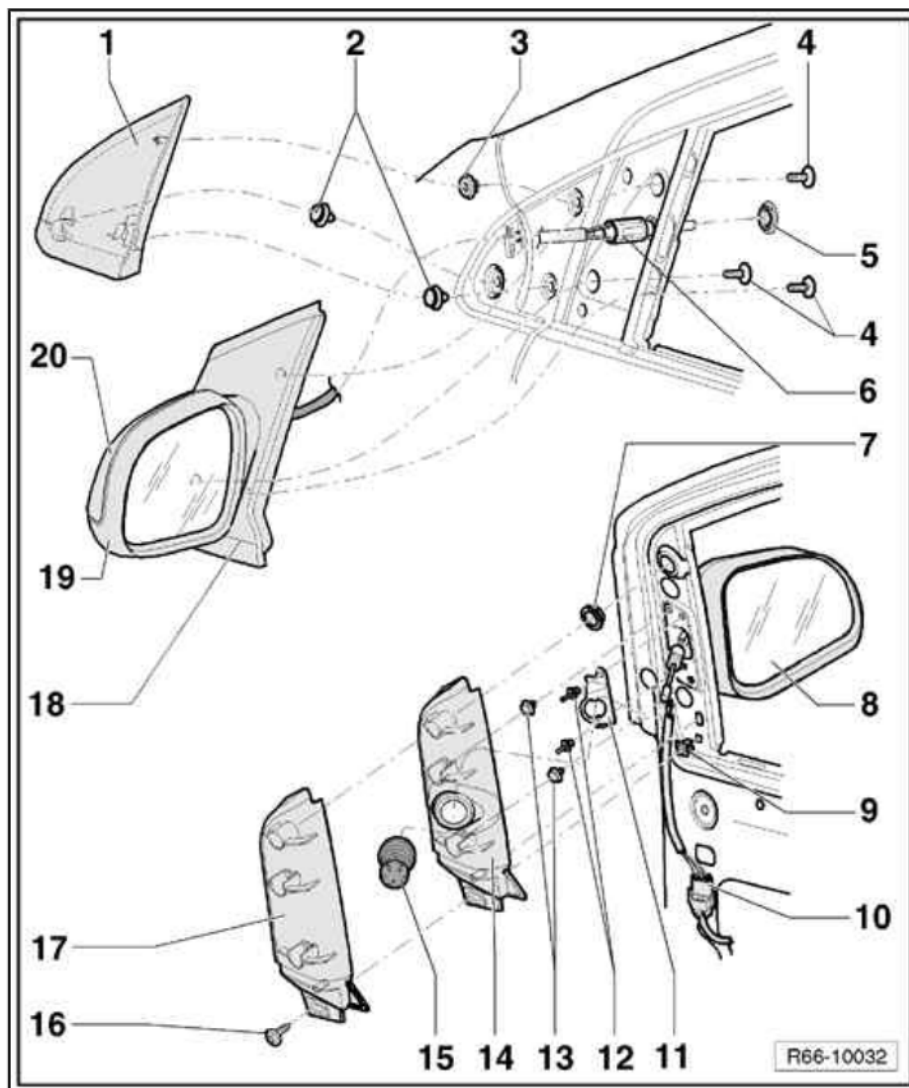


- 17 - Turn signal light wiring harness connector
- 18 - Mirror cover
- 19 - Clamp
- 20 - Finish cover
- 21 - Bushing

5.3 Outer rearview mirror (up to model-year 2010) - remove and install

5.3.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .



- Remove the cover cap (with manual operation) -14-or (with electric operation) -17-.
- ◆ For the version equipped with manual operation, remove the control knob -15-and remove the nut -5-.



- ◆ For electric operation version, disconnect the connector -10-.
- Remove screws -4- and remove the outer rearview mirror -18-.

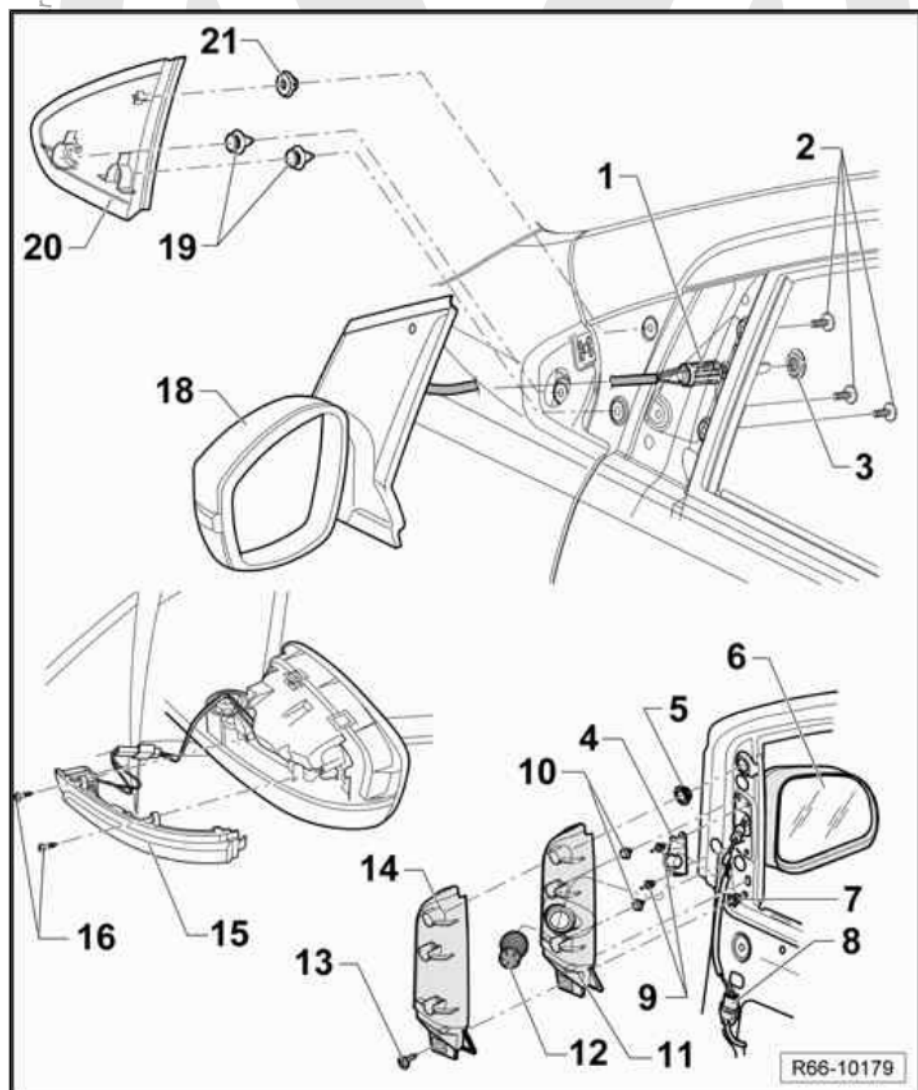
5.3.2 Installation

- Install in reverse order as of the removal.

5.4 Outer rearview mirror (up from model-year 2011) - remove and install

5.4.1 Removal

- Remove the door lining ⇒ Body - internal mountings; Rep. Gr. 70 ; Lining / Insulation .



- Remove the cover cap (with manual operation) -14- or (with electric operation) -17-.
- ◆ For the version equipped with manual operation, remove the control knob -12- and remove the nut -11-.
- ◆ For electric operation version, disconnect the connector -8-.



- Remove screws -2- and remove the outer rearview mirror.

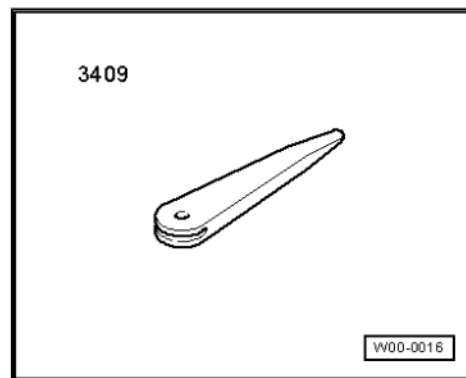
5.4.2 Installation

- Install in reverse order as of the removal.

5.5 Mirror cover (up to model-year 2010) - remove and install

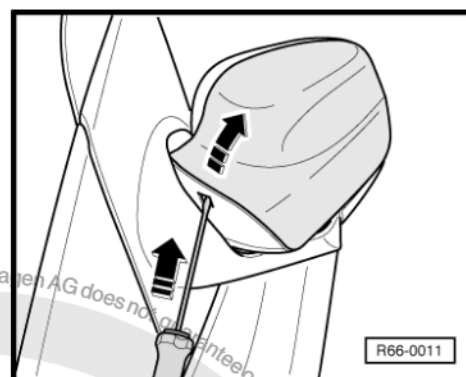
Special tools and workshop equipment required

- ♦ Wedge -3409-



5.5.1 Removal

- Fold the rear-view mirror backwards.
- Insert a screwdriver or similar tool into the joint opening of mirror base support to release the fitting recess on the mirror housing.
- In order to avoid damages to the fitting recess, press enough on the fitting recess with the Screwdriver on the -towards the arrow-, and simultaneously remove the mirror cover from the mirror base support, using the Wedge -3409-. Disengage the cover moving it in the direction of the -arrow-.



Caution

The cover is made of ABS and the mirror housing is made of ASA (Styrol-Acrylnitril modified by Acrylester). Thus, subject to breakage of locks.

5.5.2 Installation

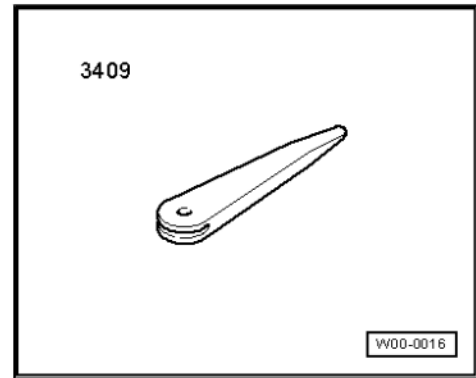
- Press the cover and fit it initially to the upper portion of the housing and at the end the lower portion.

5.6 Mirror cover (up from model-year 2011) - remove

Special tools and workshop equipment required



♦ Wedge -3409-



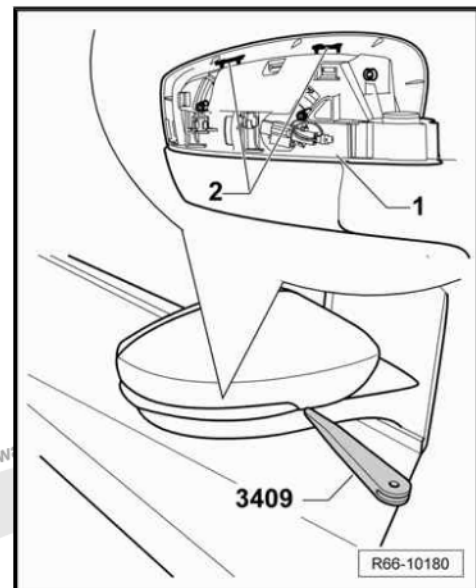
5.6.1 Removal

- Insert the wedge -3409- between the mirror housing and the cover and unlock initially the lock -1- and then unlock the locks -2-.



Caution

The cover is made of PA6 + 30% and the frame around the mirror is made of ASA (Styrol-Acrylnitril modified by Acrilester). Thus, subject to breakage of locks.



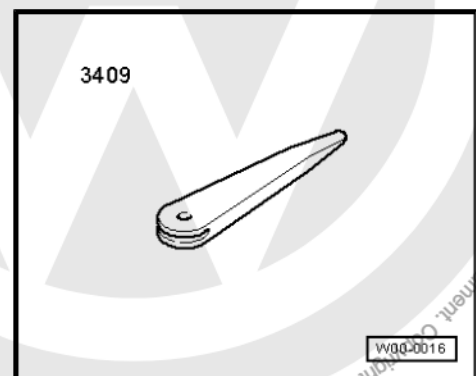
5.6.2 Installation

- Press the cover and fit it initially to the upper portion of the housing and at the end the lower portion.

5.7 Mirror frame (up to model-year 2010) - remove and install

Special tools and workshop equipment required

♦ Wedge -3409-

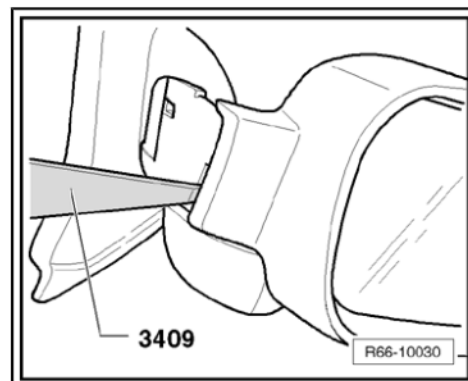


5.7.1 Removal

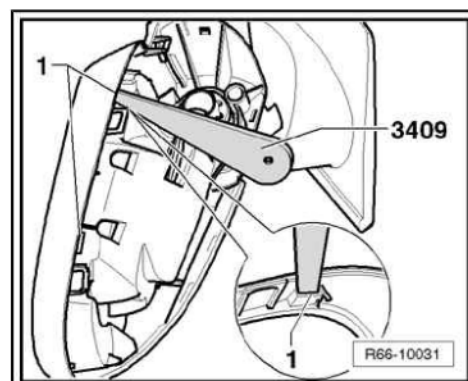
- Tilt the mirror in the direction opposite to the vehicle motion.



- Remove the mirror cover ⇒ [page 199](#) .



- Unlock the frame with the wedge -3409- .
- Disengage the locks -1- of the frame with the wedge -3409- .
- Disengage the frame and remove it.



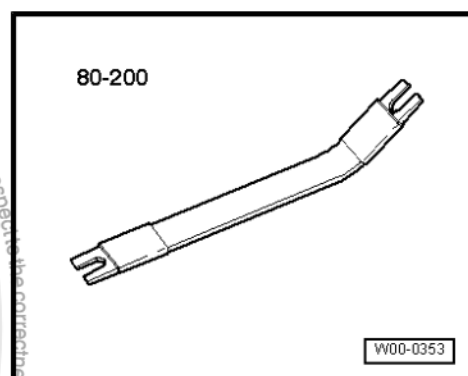
5.7.2 Installation

- Install in reverse order as of the removal.

5.8 Mirror glass (up to model-year 2010) - remove and install

Special tools and workshop equipment required

- ◆ Ejector lever -80-200-

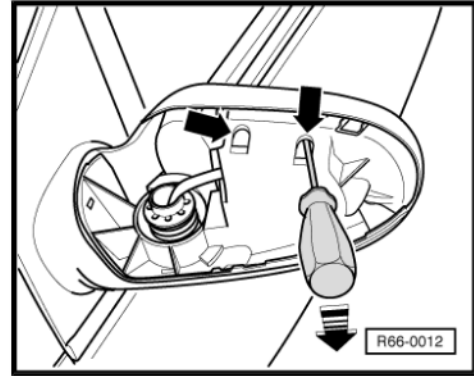


5.8.1 Removal

- Remove the mirror cover ⇒ [page 199](#) .



- Unlock the upper fitting recesses with a screwdriver or similar through the openings -arrows- to the mirror base support.
- In order to avoid damages to the fitting recesses, just press enough on the fitting recesses with a screwdriver towards the arrow.
- At the same time, press the mirror glass with a ejector lever -80-200- initially above and then under the mirror base support; in this case we should protect the base support against damage (e.g., using a cotton ribbon).
- On mirrors with heating, disconnect the mirror glass connectors.



5.8.2 Installation

- Connect the electric connections on mirrors with heating.
- Install and press the mirror glass with guide pins onto its housing.



DANGER!

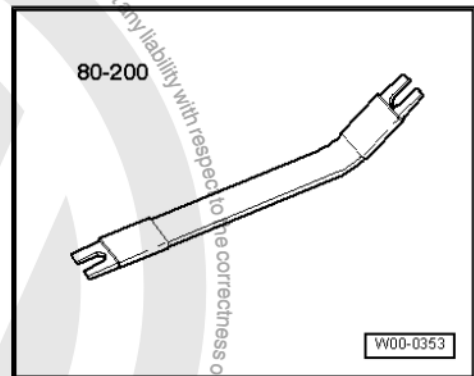
Only press at the center of the glass. Always wear protective gloves.

- Install the mirror cover.

5.9 Mirror glass (up from model-year 2011) - remove and install

Special tools and workshop equipment required

- ♦ Ejector lever -80-200-



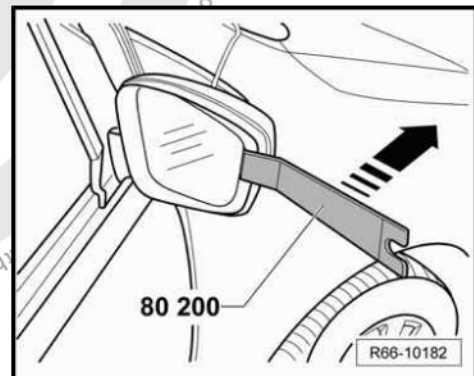
5.9.1 Removal

- Position the mirror glass -2- faced to the mirror housing inner portion. Through the opening between the mirror and the housing, insert the Ejector lever -80-200- .
- Move the Ejector lever -80-200- carefully in the direction of -arrow- and disengage the mirror glass.



Note

Protect the mirror housing with adhesive tape.





5.9.2 Installation

- Press the mirror glass center portion so as to fit it.



DANGER!

Only press at the center of the glass. Always wear protective gloves.





6 External trims

6.1 Lower windshield trim - assembly overview

1 - Windshield lower trim

- ☐ Remove and install
⇒ [page 205](#)

2 - Sealing

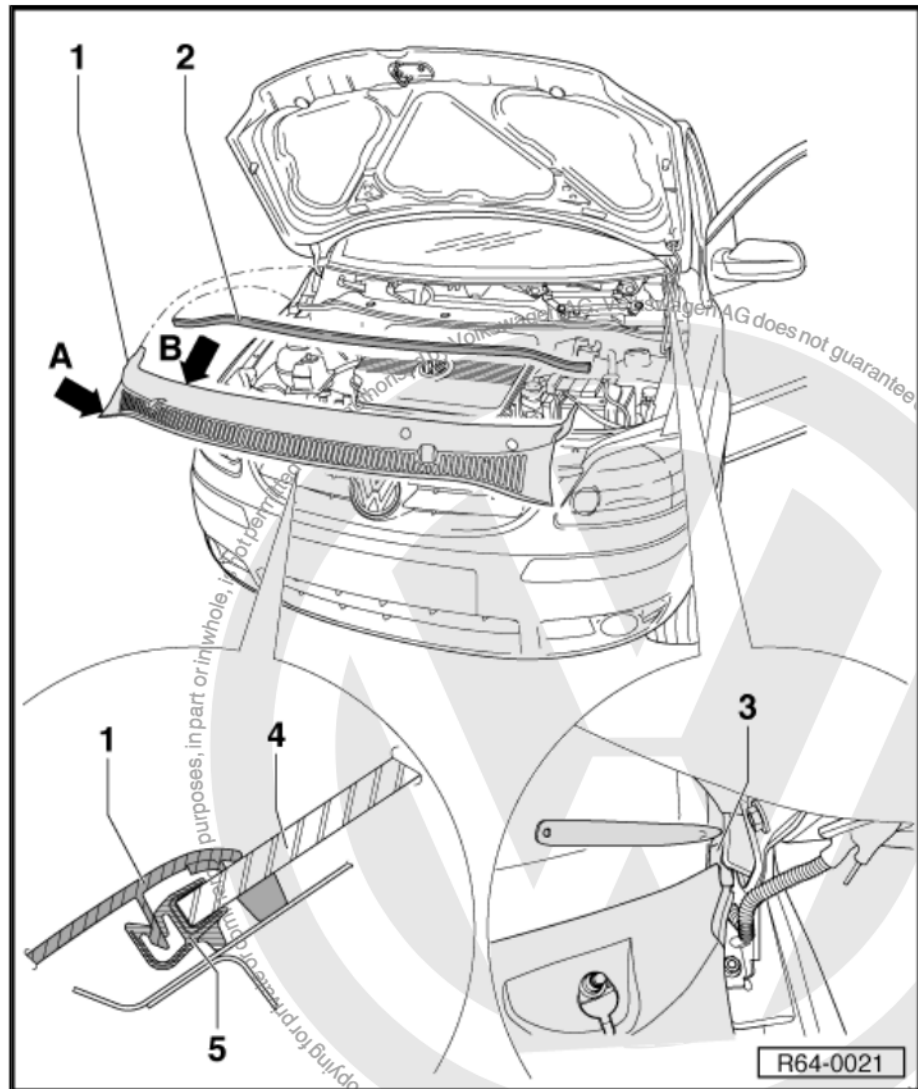
- ☐ Fitted onto the plenum chamber flange

3 - Cap

- ☐ On the plenum chamber cover

4 - Windshield

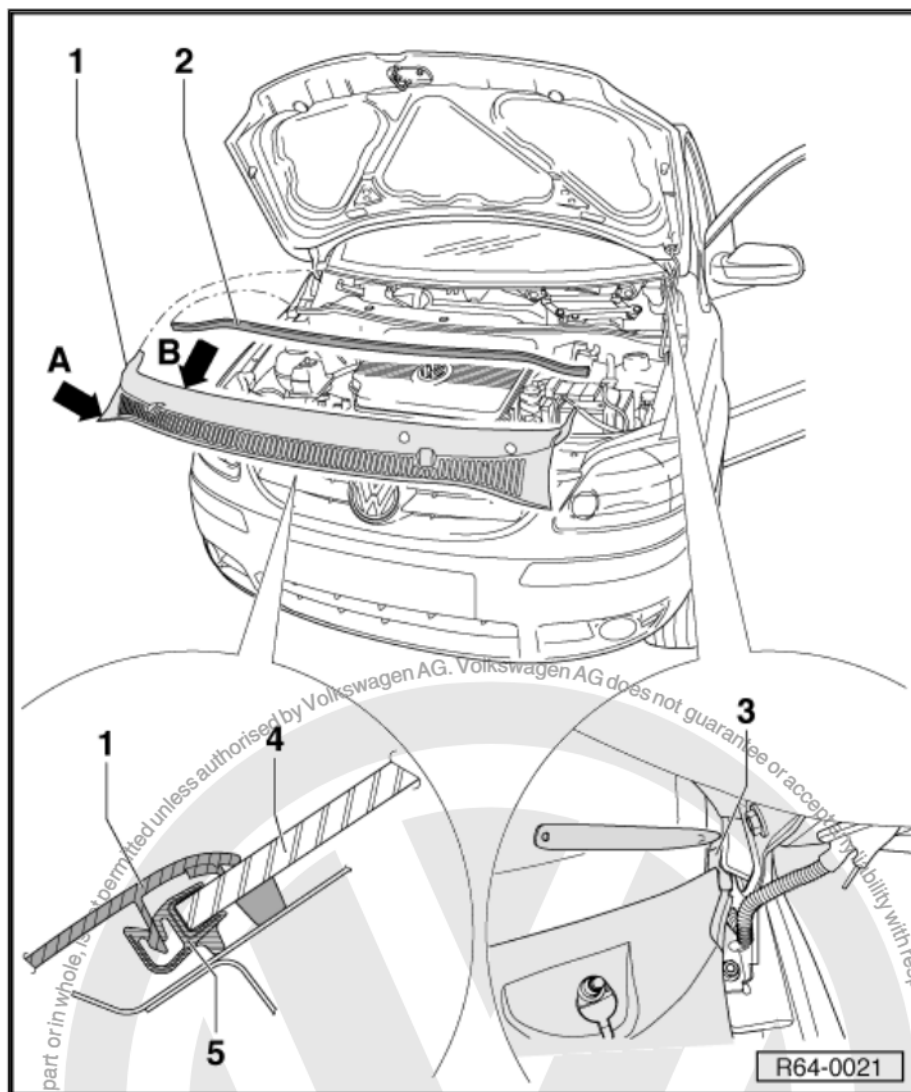
5 - Fitting strip





6.2 Lower ??windshield trim - remove and install

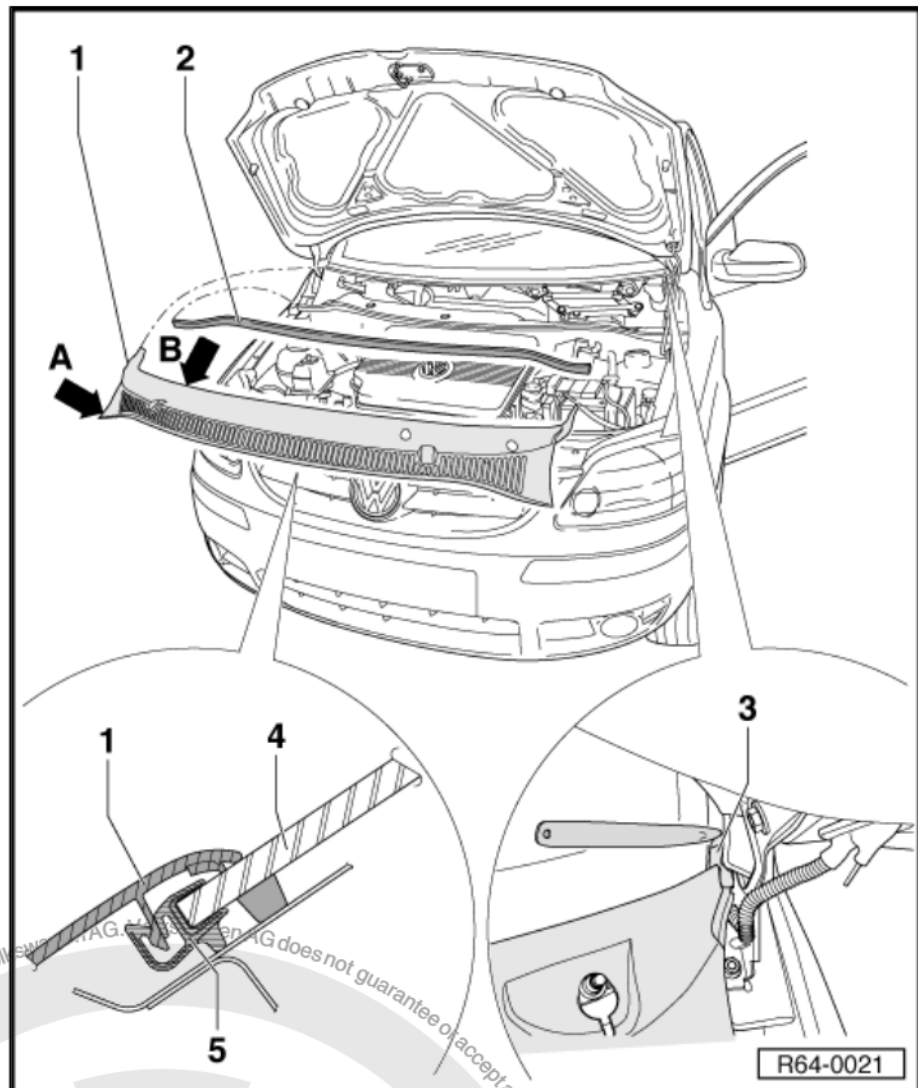
6.2.1 Removal



- Remove windshield wiper arms - Electrical equipment; Rep. Gr. 92 ; Windshield wiper blade and arm set - remove and install .
- Remove sealing -2- completely.
- With a Plastic wedge (e.g., a Windshield removal set -VAG 1755-) press the clamps forward -3- of the windshield lower trim-1- , left and right sides, between the hinge and the hood.
- Pull the windshield lower trim up carefully -4- beginning on the right side -arrow A- outwards the fitting strip -5- on the windshield -4-.



6.2.2 Installation

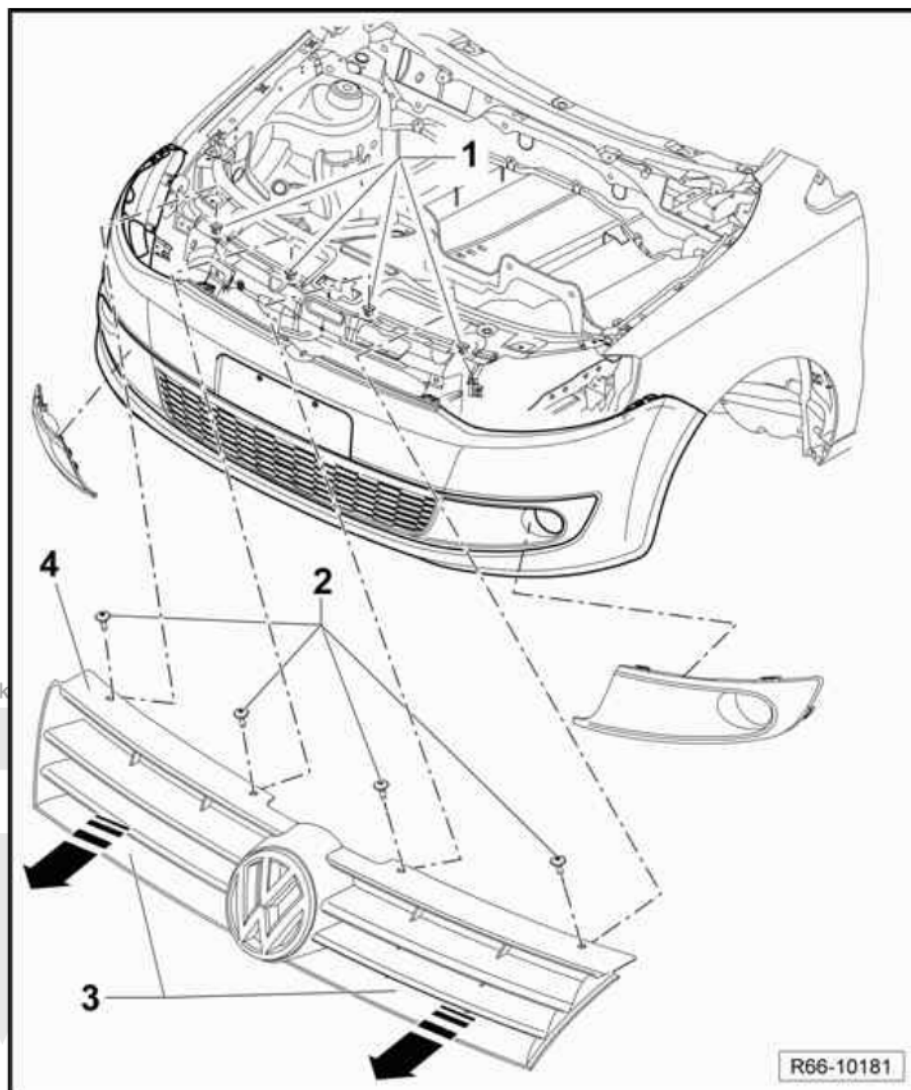


- For a better attachment of the windshield lower trim -1- inside the fitting strip -5-, apply neutral soap.
- Install the lower trim of the windshield-1- over the fitting strip -5- on the windshield -4- and up from the center portion -arrow B- fit the windshield lower trim pressing it slightly.
- With a Plastic wedge (e.g., a Windshield removal set -VAG 1755-) position at the installation point the finishings -3- of the windshield lower trim -1- ,both on left and right sides, between the hinge and the hood.
- Press the seal over the lower trim -2-.
- Install the windshield wiper arms ➔ Electrical equipment; Rep. Gr. 92 ; Windshield wiper blade and arm set - remove and install



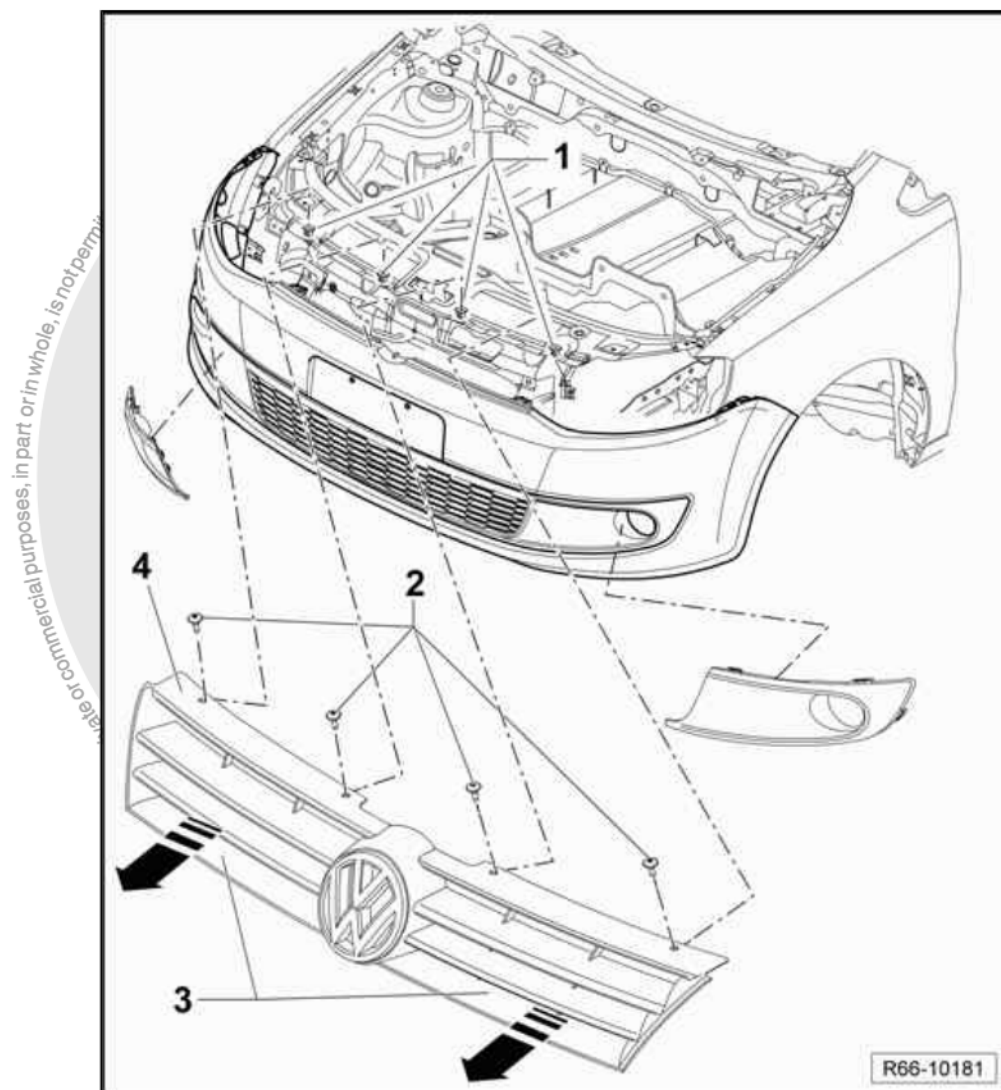
6.3 Front grille (up from model-year 2011) - remove and install

- 1 - Bushing
 - 4 parts
- 2 - Screw
 - 4 parts
 - 1.5 Nm
- 3 - Hand support area for removing the grille
- 4 - Front grille with emblem





6.3.1 Removal



- Remove screws -4-.
- With the hands at the area -3-, disengage the grille of the front bumper shield.



Caution

Due to cutting corners of the front grille, we recommend the wear of safety gloves.

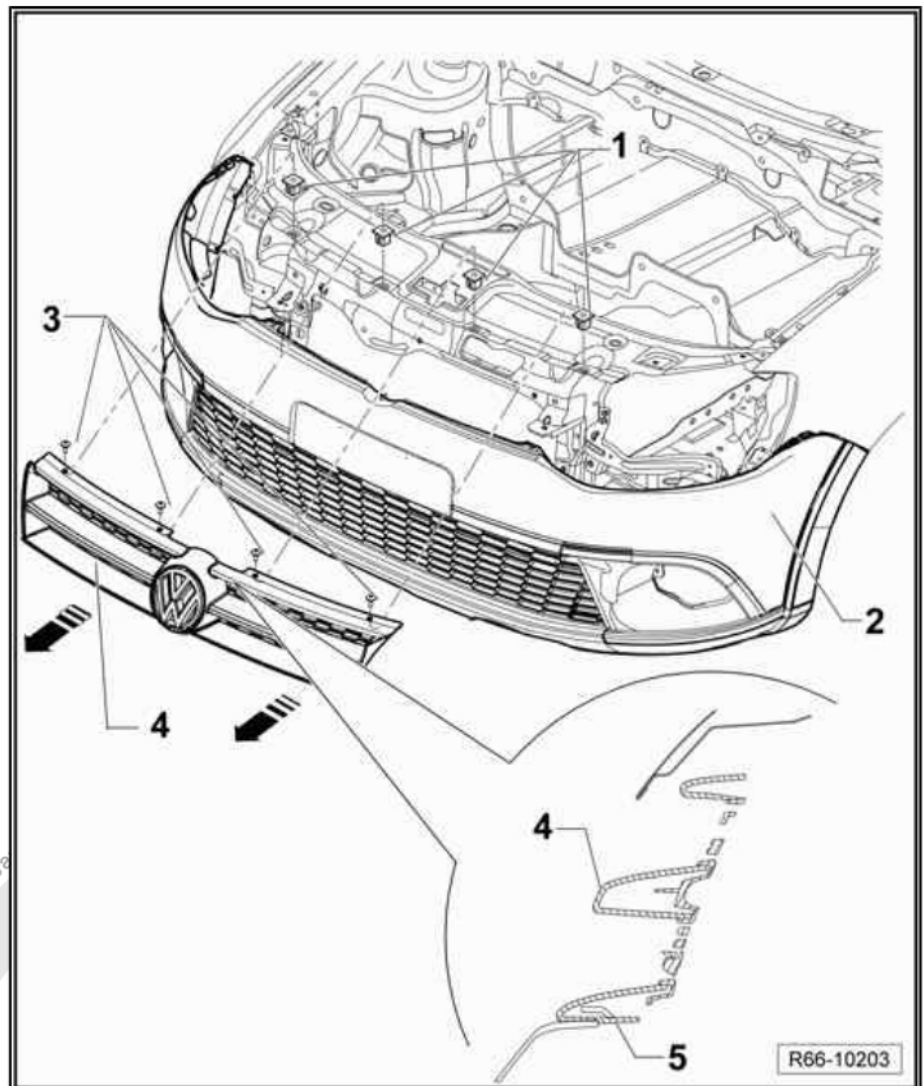
6.3.2 Installation

- Install in reverse order as of the removal.

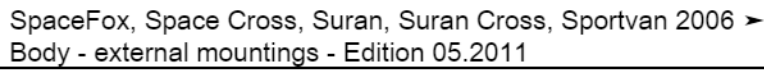


6.4 Front grille (Space Cross and Suran Cross) - remove and install

- 1 - Bushing
□ 4 parts
- 2 - Front protection
- 3 - Screw
□ 4 parts
□ 1.5 Nm
- 4 - Front grille with emblem
- 5 - Lower fastening lug



Removal



- 

Due to cutting corners of the front grille, we recommend the wear of safety gloves.

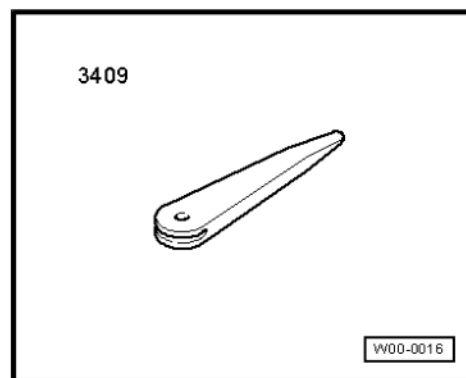
- Install in reverse order as of the removal.

6.5.1 Front shield grilles (up from model-year 2011) - assembly overview

210



◆ Wedge -3409-



1 - Front protection

- ☐ Remove and install

2 - Left side grille of the front shield

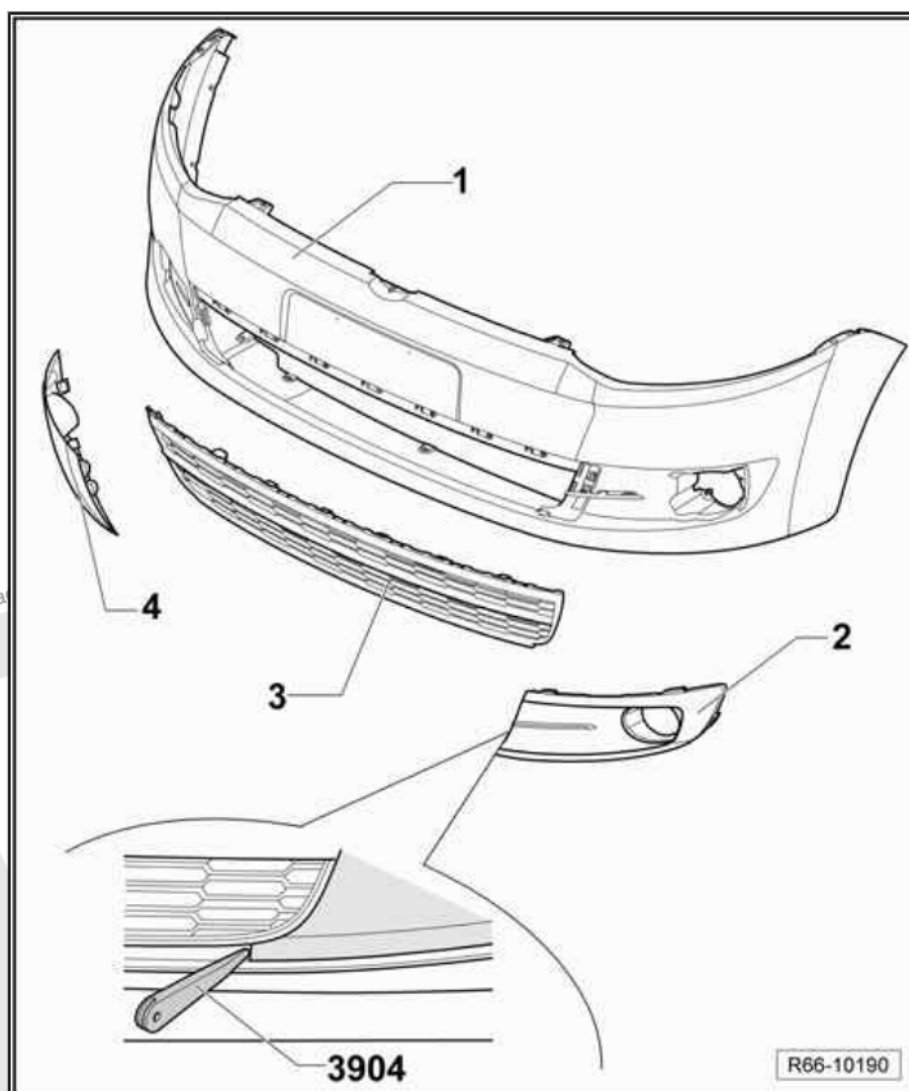
- ☐ Attached to the front shield through fastening tongues.
- ☐ Disengage the grille with the Wedge -3409-

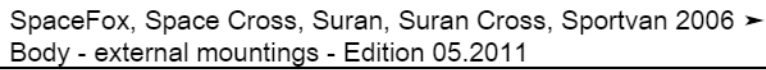
3 - Center grille of the front shield

- ☐ Attached to the front shield through fastening tongues.
- ☐ Remove the front shield for access to the tongues.
- ☐ Disengage the fastening tongues carefully from the center grille.

4 - Right side grille of the front shield

- ☐ Attached to the front shield through fastening tongues.
- ☐ Disengage the grille with the Wedge -3409-





1 - Wheelhouse protection

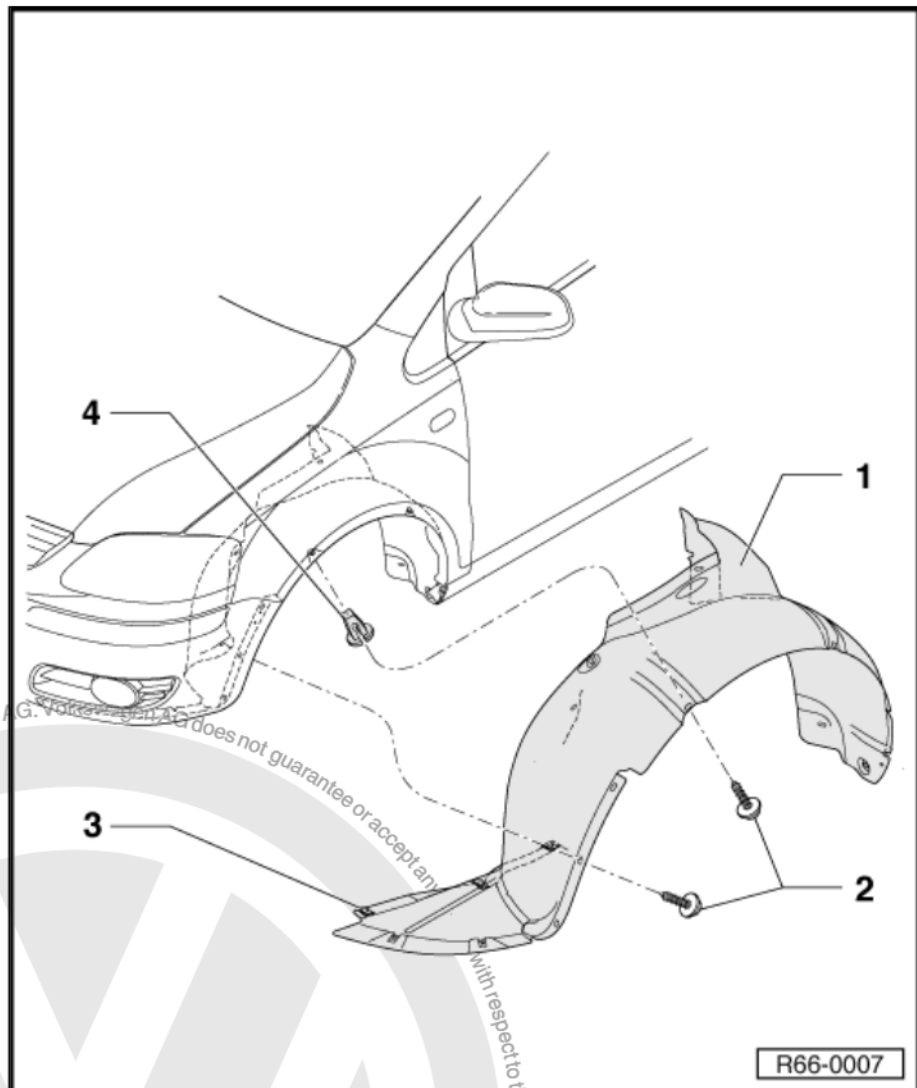
- ❏ Installation:

2 - Screw

- ### 3 - Quick nut

- 3 parts

- 4 - Bushing
☐ 8 parts





6.7 Rear wheelhouse protection

1 - Wheelhouse protection

☐ Removal:

- Remove the wheel.
- Remove screws
⇒ [Item 3 \(page 213\)](#)
and remove the wheelhouse shield.

☐ Installation:

Installation is carried out in the reverse order of removal.

2 - Quick nut

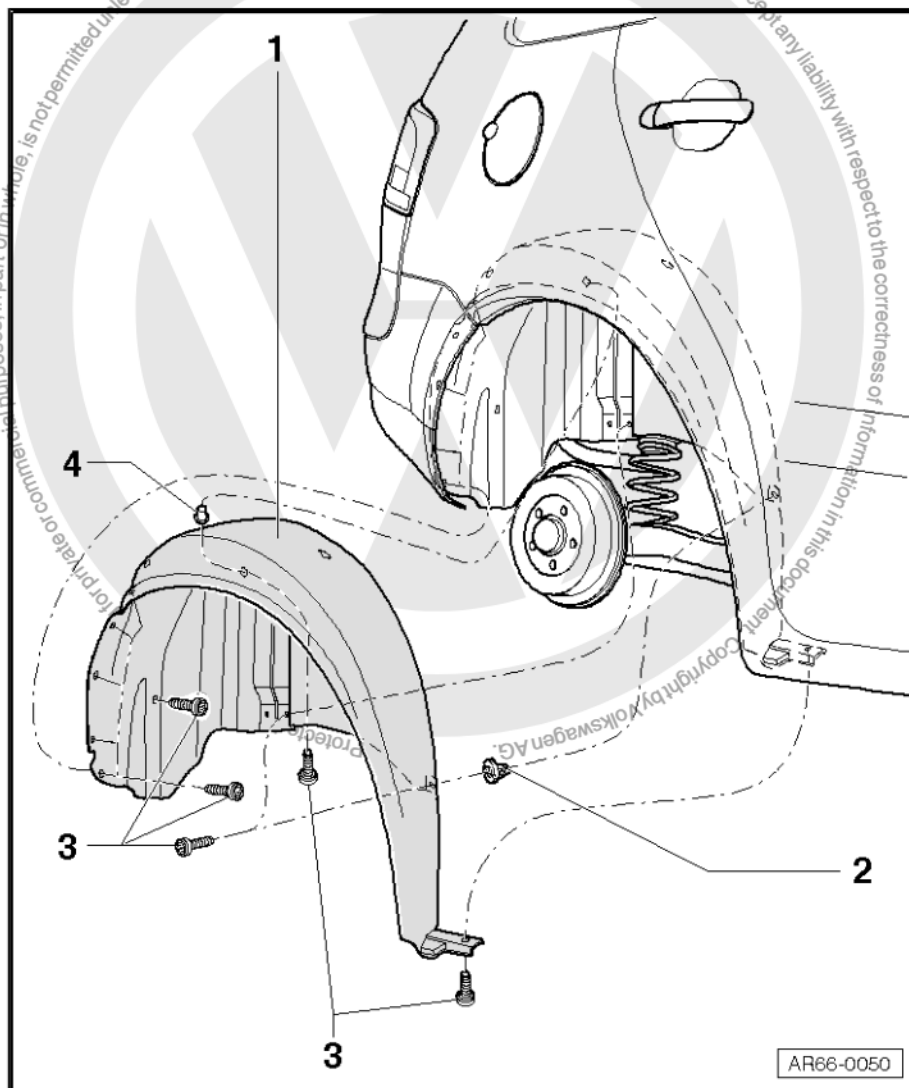
- ☐ 3 parts

3 - Screw

- ☐ 8 parts
- ☐ 1.5 Nm

4 - Bushing

- ☐ 2 parts





6.8 Lower floor lining - assembly overview

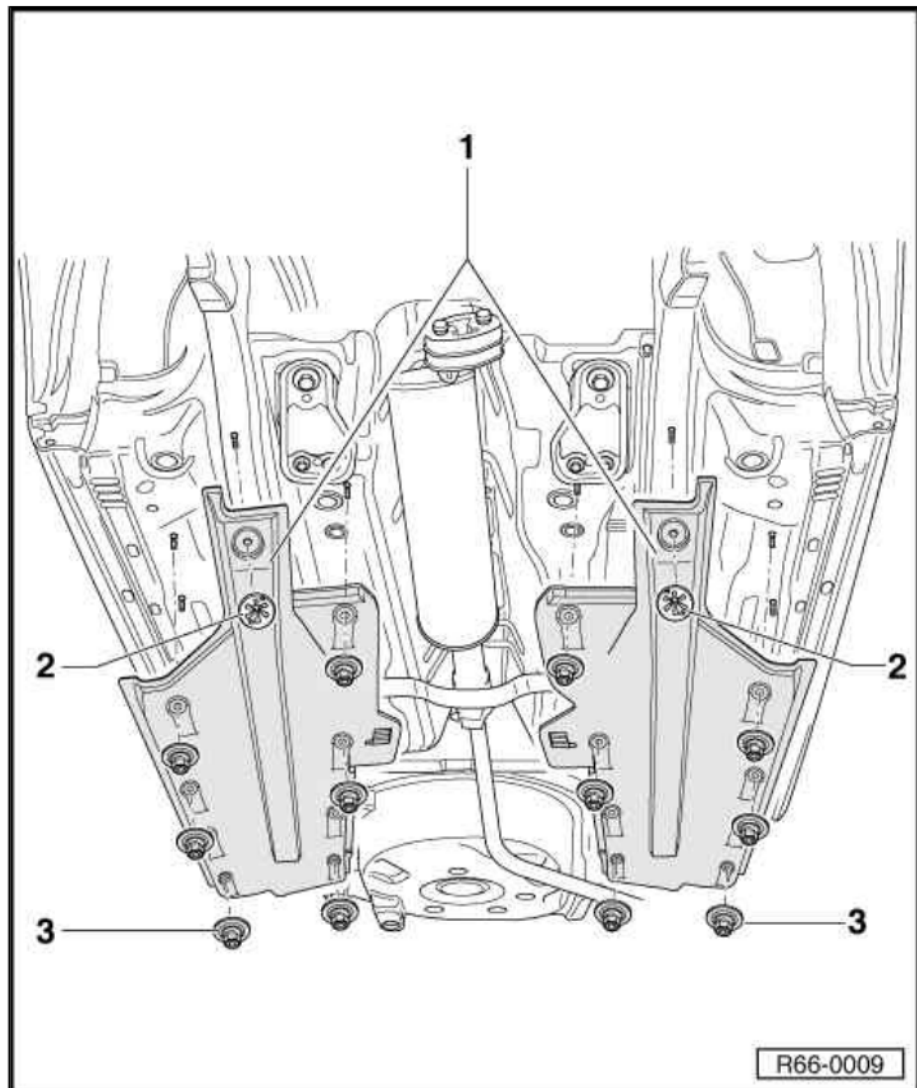
1 - Lining

2 - Securing washer

- ☐ 1,5 Nm
- ☐ Fixed to the bodys threaded pin
- ☐ While assembling, fix it instead of pressing

3 - Plastic nut

- ☐ 1,5 Nm
- ☐ Fitted to the lining by means of shackles
- ☐ Fixed to the bodys threaded pin





7 Lower floor lining - assembly overview

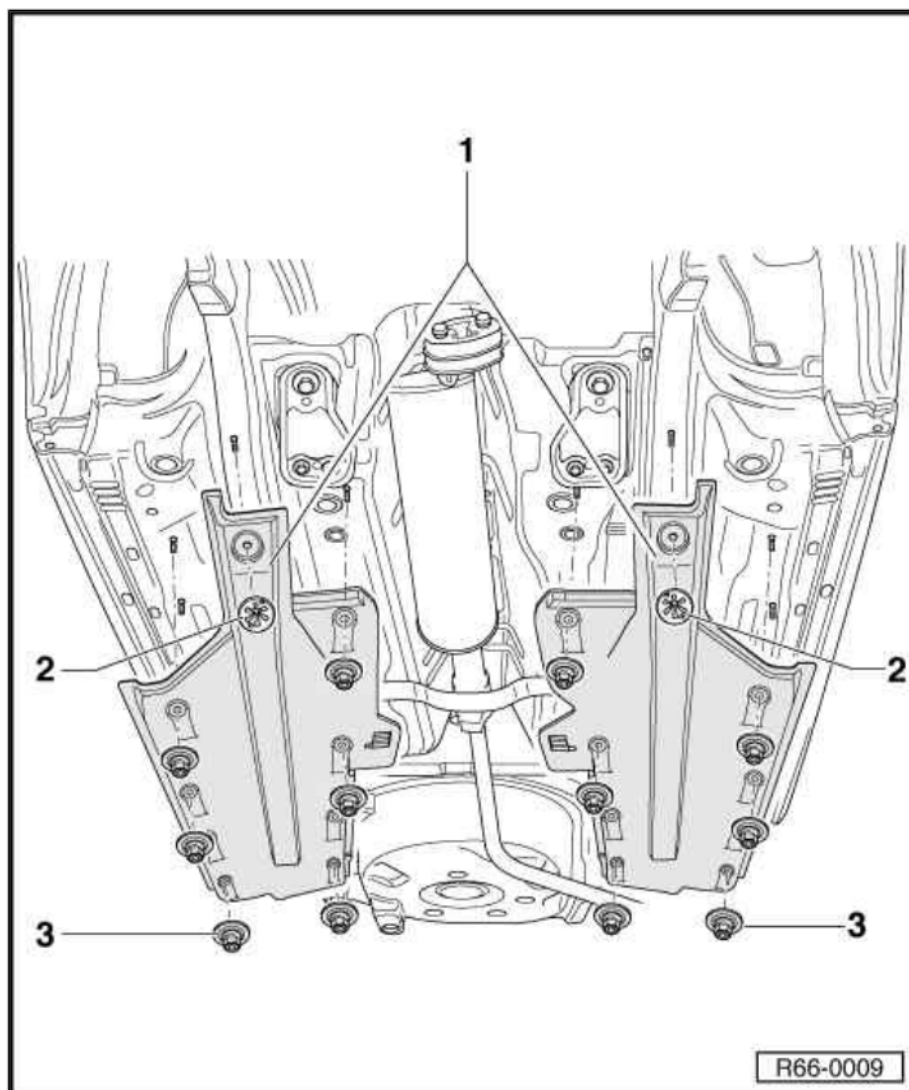
1 - Lining

2 - Securing washer

- ☐ 1.5 Nm
- ☐ Fixed to the bodys threaded pin
- ☐ when assembling fastening is recommended, not pressing

3 - Plastic nut

- ☐ 1,5 Nm
- ☐ Fastened to the lining by means of shackles
- ☐ Fixed to the bodys threaded pin

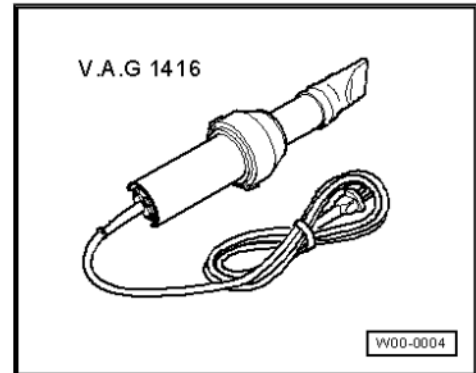




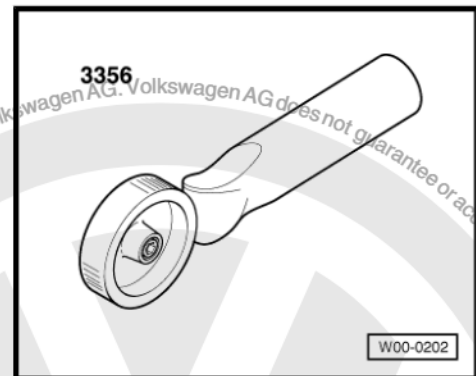
8 Outer lining of doors and pillars - replace

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-





1 - Assembling area of front door outer lining

- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .

2 - Assembling area of rear door outer lining (rear portion)

- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .

3 - Assembling area of rear door outer lining (front portion)

- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .

4 - Outer lining of rear door (rear portion)

- ☐ self-adhesive
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Pull off protective foil, attach side protective strip lightly and then press forcefully on press tool -3356- . Approximate operation temperature. 20°C.

5 - Assembling area of pillar B outer lining

- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04- .

6 - Center pillar external lining

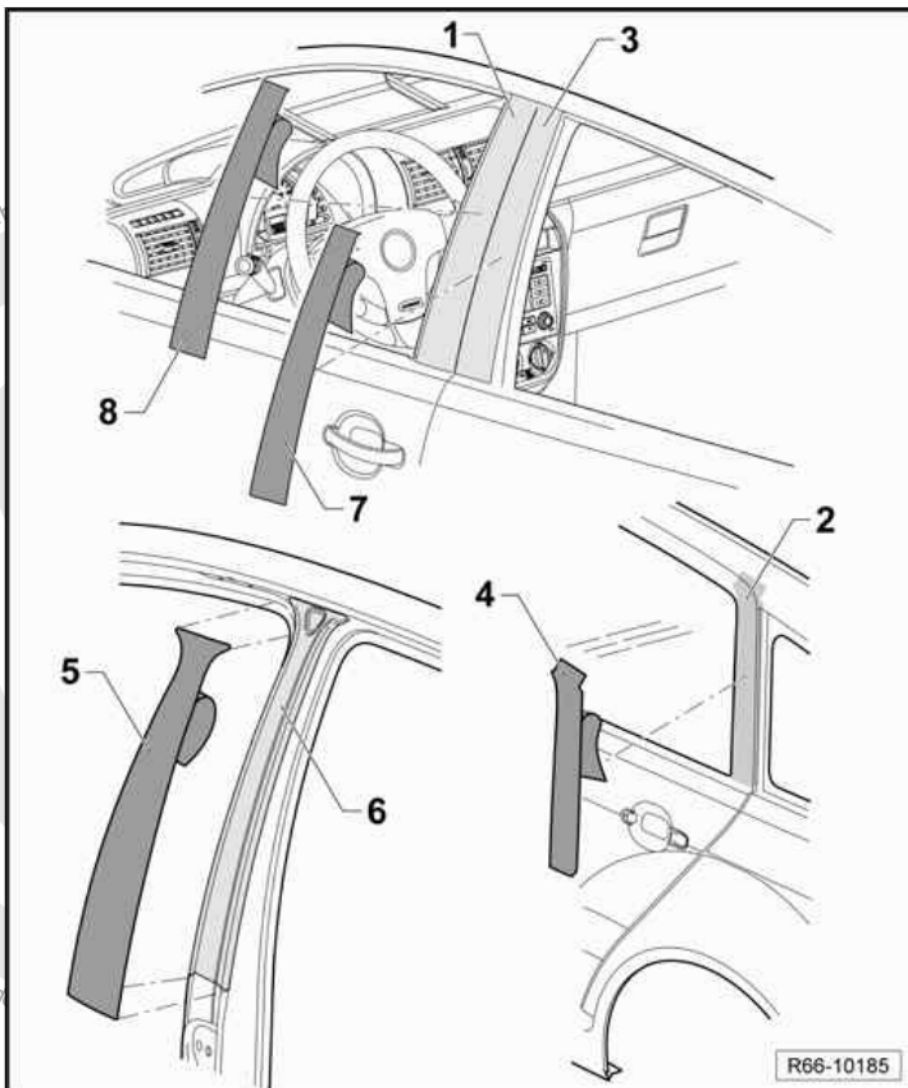
- ☐ self-adhesive
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Pull off protective tape, attach side protective strip lightly and then press forcefully using the press tool -3356- . Approximate operation temperature. 20°C.

7 - Rear door outer lining

- ☐ self-adhesive
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Pull off protective foil, attach side protective strip lightly and then press forcefully on press tool -3356- . Approximate operation temperature. 20°C.

8 - Front door outer lining

- ☐ self-adhesive
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416- .
- ☐ Pull off protective foil, attach side protective strip lightly and then press forcefully on press tool -3356- . Approximate operation temperature. 20°C.



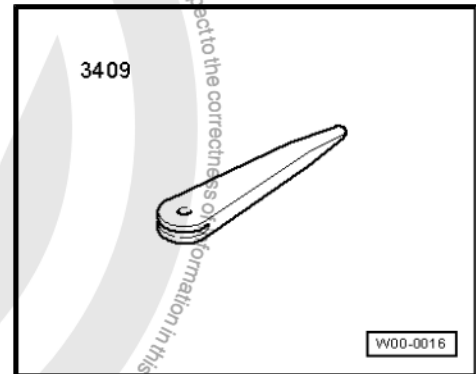


9 Grilles, spoiler and moldings of the bumper shields

9.1 Front protection grilles - assembly overview

Special tools and workshop equipment required

- ♦ Wedge -3409-



1 - Front protection

- ☐ Remove and install

2 - Left side grille of the front shield

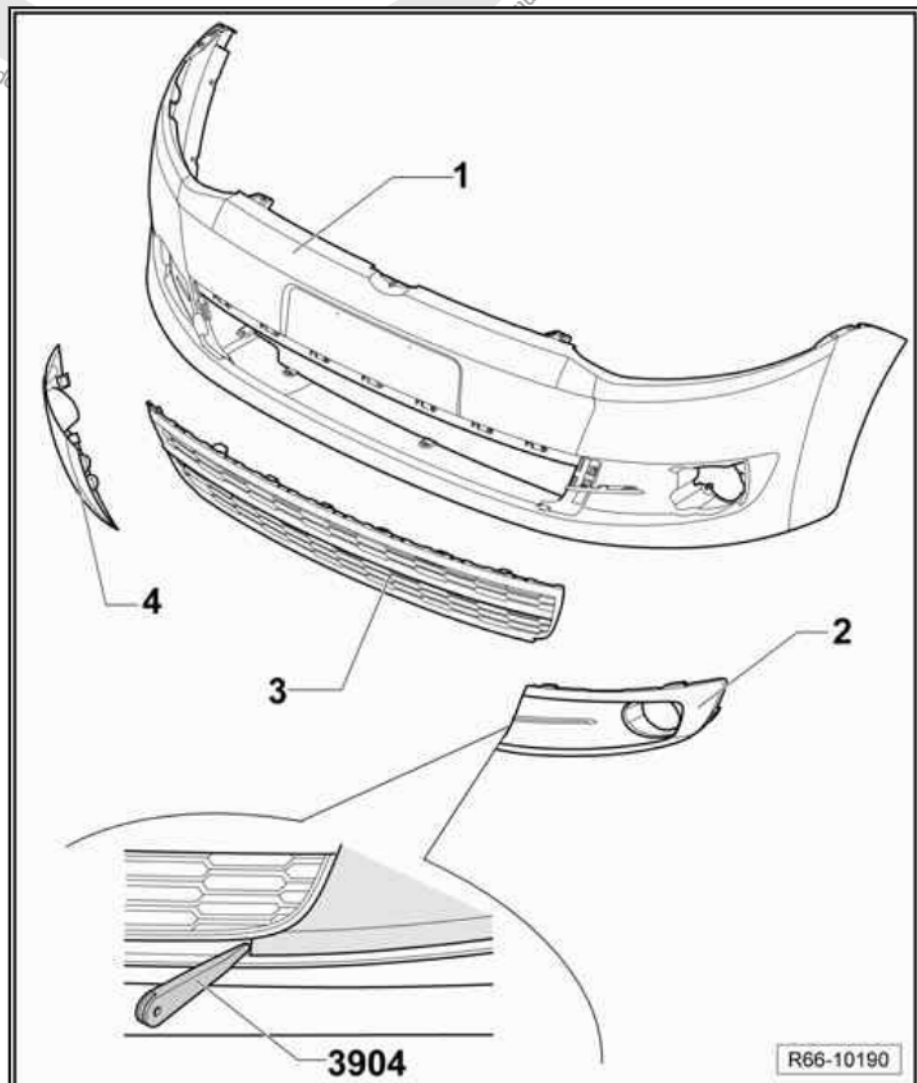
- ☐ Attached to the front shield through fastening tongues.
- ☐ Disengage the grille with the Wedge -3409-

3 - Center grille of the front shield

- ☐ Attached to the front shield through fastening tongues.
- ☐ Remove the front shield for access to the tongues.
- ☐ Disengage the fastening tongues carefully from the center grille.

4 - Right side grille of the front shield

- ☐ Attached to the front shield through fastening tongues.
- ☐ Disengage the grille with the Wedge -3409-

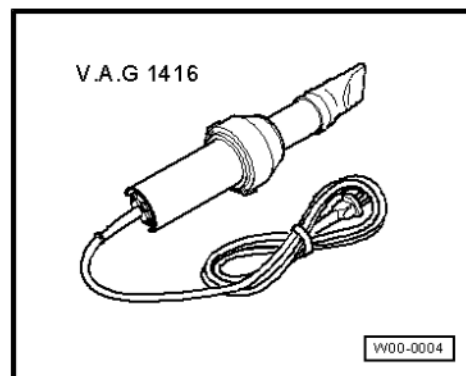




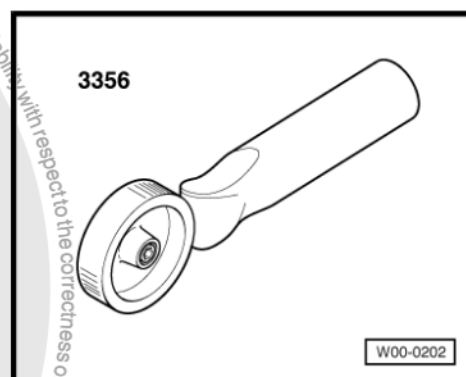
9.2 Grilles, front protector trim and spoiler (Space Cross and Suran Cross) - Assembly overview

Special tools and workshop equipment required

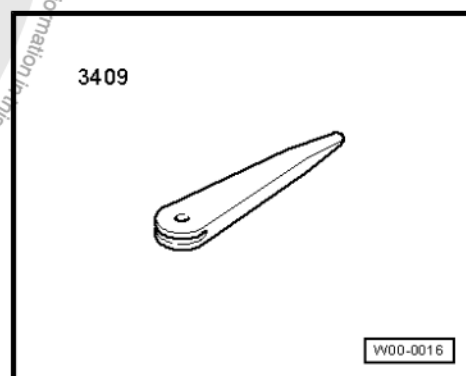
- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-



- ◆ Wedge -3409-





1 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

2 - Front protection

- ☐ Remove and install
⇒ [page 141](#)

3 - Front protector trim

- ☐ Self-adhesive
- ☐ Remove circlips -4- and screw -6-.
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416-.
- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04-.
- ☐ Remove adhesive tape liner, place the stripe. Approximate operation temperature. 20°C.

4 - Circlip

5 - Quick nut

6 - Screw

- ☐ 1.5 Nm

7 - Left side grille of the front shield

- ☐ attached to the front shield through fastening tongues.
- ☐ disengage the grille with the Wedge -3409-

8 - Screw

- ☐ 1.5 Nm

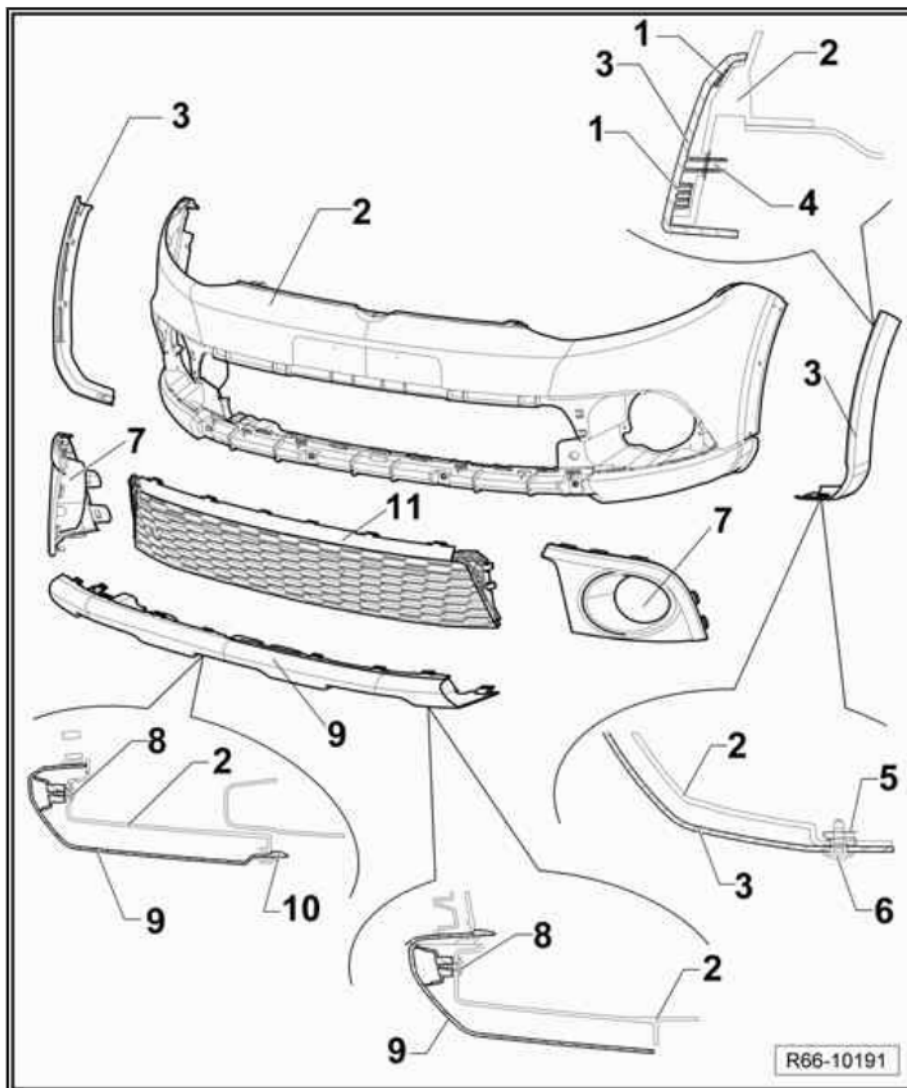
9 - Front spoiler

- ☐ Removal
 - Remove front shield from bumper ⇒ [page 141](#).
 - Remove screws -8- and disengage the lugs -10-.
 - Detach and pull off spoiler.
- ☐ Installation
 - Install in reverse order as of the removal

10 - Locking lug

11 - Center grille of the front shield

- ☐ attached to the front shield through fastening tongues.
- ☐ side grille must be removed.
- ☐ remove the front shield for access to the tongues.
- ☐ disengage the fastening tongues carefully from the center grille.



ability with respect to the correctness of information in this



9.3 Front protector trim and spoiler (Space Cross and Suran Cross) - Assembly overview

1 - Rear protector trim

- ☐ Self-adhesive
- ☐ Remove circlips -4- and screw -6-.
- ☐ Before removal, the lining should be heated with the thermal blower -VAG 1416-.
- ☐ Clean the area with the adhesive remover -D 002 000 10- and, then, apply the cleaning solution -D 009 401 04-.
- ☐ Remove adhesive tape liner, place the stripe. Approximate operation temperature. 20°C.

2 - Rear wheelhouse protection

3 - Circlip

4 - Double-face tape

- ☐ The area where the adhesive tape is glued must be free of dirt
- ☐ The self-adhesive surface of the tape should not be touched anyway.

5 - Rear spoiler

- ☐ Removal
 - Remove rear shield from bumper.
 - Remove screws-2- and screw -4-.
 - Detach and pull off spoiler.

☒ Installation

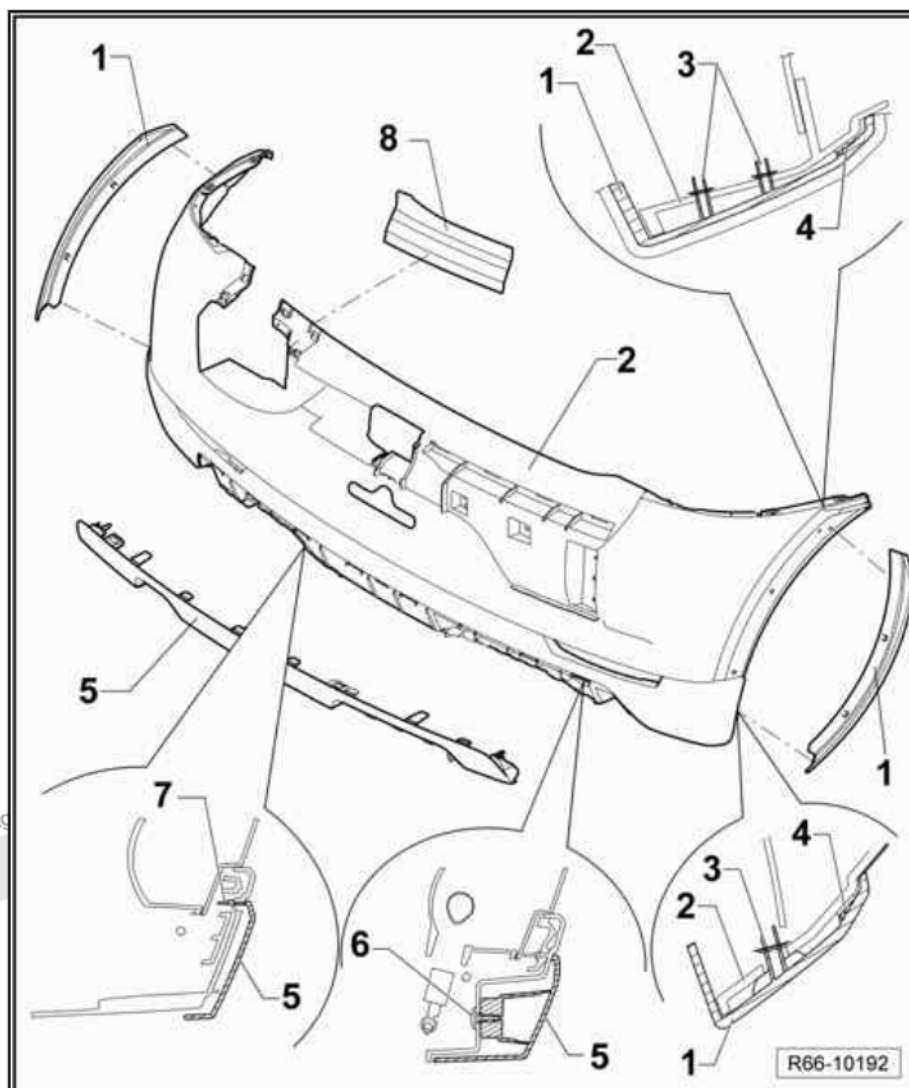
Install in reverse order as of the removal

6 - Screw

7 - Locking lug

8 - Rear protector trim

- ☐ for spare wheel support



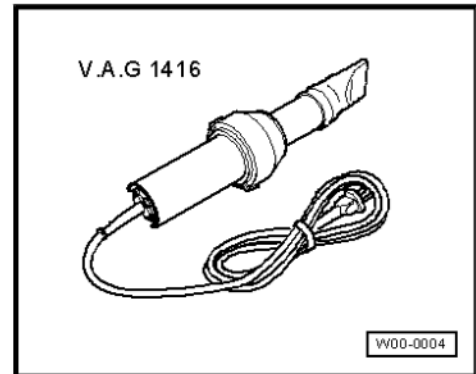


10 Side strips

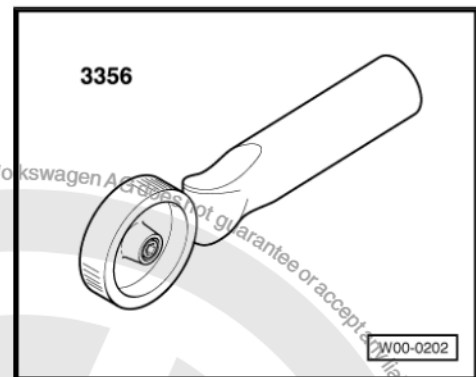
10.1 Side strips - replace

Special tools and workshop equipment required

- ◆ Blow pipe -VAG 1416-



- ◆ Press tool -3356-



Side strips (all models except Space Cross and Suran Cross)



1 - Rear door strip

- ☐ Self-adhesive
- ☐ Measurement "nd" = 8 mm
- ☐ Removal:
 - Pull the strip off.
 - Remove dirt and grease.
 - Remove the adhesive residues with the Cleaning solution -D 009 401 04- and carry out the treatment with the Silicone remover -LSE 020 100 A3- rubbing it until drying.
- ☐ Installation:
 - Heat the strip and the surface with the Blow pipe -VAG 1416- so as to ease the installation.
 - Remove the double faced adhesive tape liner, position the strip and press it with the Press tool -3356-.



Note

Observe the measure "nd".

2 - Front door strip

- ☐ Self-adhesive
- ☐ Measurement "nd" = 8 mm
- ☐ Removal:
 - Pull the strip off.
 - Remove dirt and grease.
 - Remove the adhesive residues with the Cleaning solution -D 009 401 04- and carry out the treatment with the Silicone remover -LSE 020 100 A3- rubbing it until drying.
- ☐ Installation:
 - Heat the strip and the surface with the Blow pipe -VAG 1416- so as to ease the installation.
 - Remove the double faced adhesive tape liner, position the strip and press it with the Press tool -3356-.

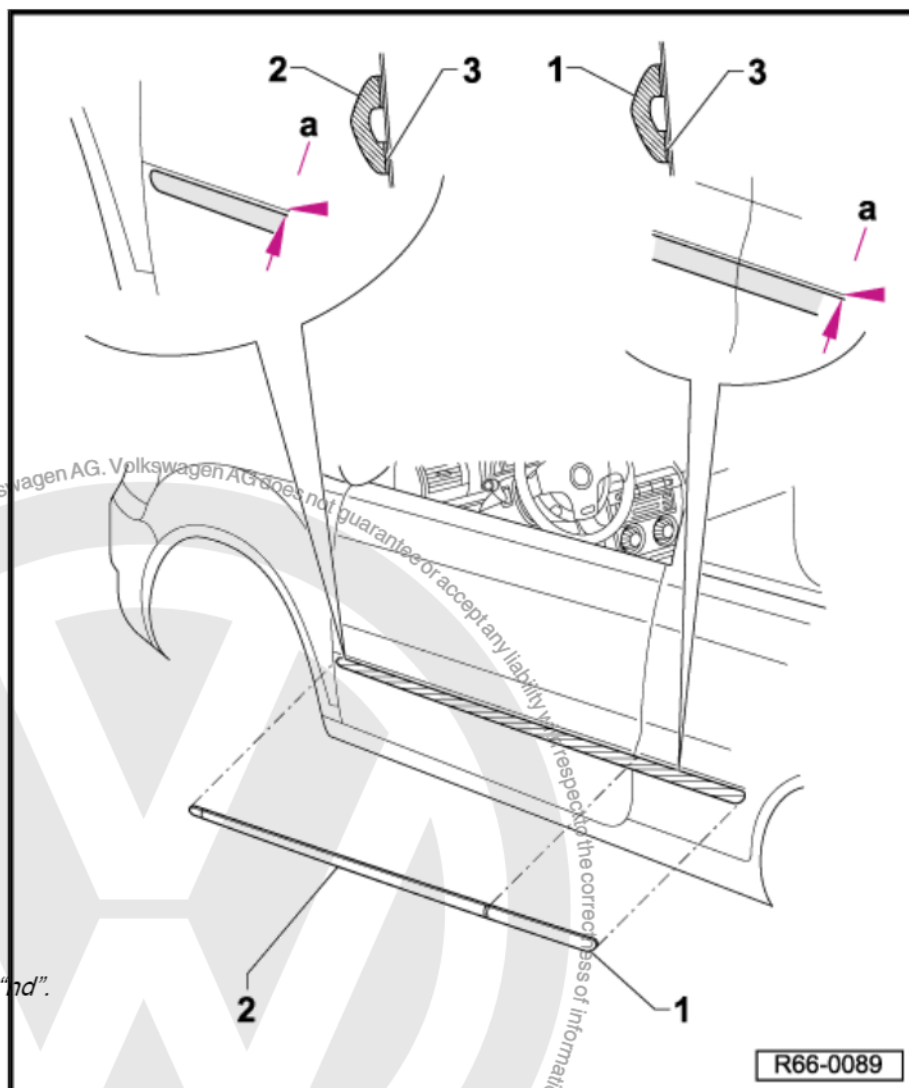


Note

Observe the measure "nd".

3 - Double-face tape

Side strips (only for Space Cross and Suran Cross models)





1 - Rear door strip

- ☐ Self-adhesive and glue PU

- ☐ Measurement "C" = 29.3 mm

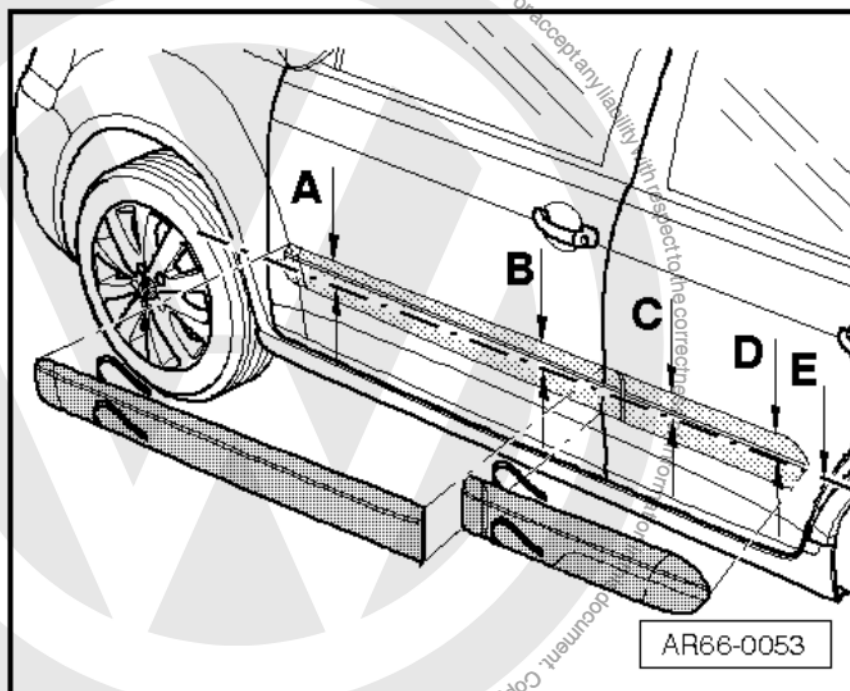
- ☐ Measurement "D" = 30.5 mm

- ☐ Removal:

- Pull the strip off.
- Remove dirt and grease.
- Remove the adhesive residues with the Cleaning solution -D 009 401 04- and carry out the treatment with the Silicone remover -LSE 020 100 A3- rubbing it until drying.

- ☐ Installation:

- Heat the strip and the surface with the Blow pipe -VAG 1416-, so as to ease the installation.



- Remove the double faced adhesive tape liner, position the strip and press it with the Press tool -3356-.



Note

Observe measures "C" and "D".

2 - Front door strip

- ☐ Self-adhesive and glue PU

- ☐ Measurement "A" = 22.1 mm

- ☐ Measurement "B" = 28.1 mm

- ☐ Removal:

- Pull the strip off.
- Remove dirt and grease.
- Remove the adhesive residues with the Cleaning solution -D 009 401 04- and carry out the treatment with the Silicone remover -LSE 020 100 A3- rubbing it until drying.

- ☐ Installation:

- Heat the strip and the surface with the Blow pipe -VAG 1416-, so as to ease the installation.
- Remove the double faced adhesive tape liner, position the strip and press it with the Press tool -3356-.



Note

Observe measures "A" and "B".

3 - Double-face tape

4 - PU adhesive

- ☐ Gluing area must be thoroughly cleaned with isopropyl alcohol.
- ☐ Immediately before installing, strips must be heated at 25° to 40° C



- ❑ Installation must be carried out with constant force of 30 to 50N, by using the Press tool -3356- and max. of 3 minutes.

05.11

